



SAAT

Math Tajmi3at

Prepared by: Leen Training Center



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Math Section

1. What is the equation of a line that has a slope of 4 and a y-intercept of 5?

A. $y = 5x + 4$

B. $5y = x + 4$

C. $y = 4x + 5$

D. $y = 6x + 3$

Correct Answer

[C]

The slope is the coefficient of x, and the y-intercept is the initial value in the equation.

2. What value of "n" makes the line horizontal? $y = (n+1)x + 2$

A. -1

B. 2

C. 3

D. 0

Correct Answer

[A]

The line is horizontal if the slope is 0.

3. What is $(0, 4)$ rotated 270° degrees?

A. $(0, 4)$

B. $(3, 2)$

C. $(-4, 0)$

D. $(4, 0)$

Correct Answer

[D]

When you rotate (x, y) 270° degrees, it becomes $(y, -x)$

4. What is the domain of $y = |x - 7|$?

A. R

B. $(0, 100)$

C. $(0, 50)$

D. $(-50, 0)$

Correct Answer

[A]

The domain of the absolute value function is all real numbers.

5. $2i \times 5i$

A. -10	B. $-10i$
C. 10	D. $10i$
Correct Answer	[A] $i \times i = -1$

6. Which set of numbers has the biggest standard deviation value?

A. 10, 10, 10, 10, 10	B. 10, 11, 12, 13, 13
C. 5, 6, 7, 8, 9, 10	D. 10, 12, 17, 19, 22
Correct Answer	[D] The more the values are apart, the higher the standard deviation.

7. $f(x) = 3x^2 + 5$ What type of function is this?

A. Linear	B. Quadratic
C. Absolute Value	D. Exponential
Correct Answer	[B] The x value is raised to the power of two.

8. $\begin{vmatrix} 1 & 2 & 3 \\ 1 & 3 & 4 \end{vmatrix}$ What is the value of a_{23} ?

A. 4	B. 2
C. 1	D. 3
Correct Answer	[A] a_{23} is the second row, third column.

9. Simplify $\sqrt{-36}$

A. -6	B. $6i$
C. $-6i$	D. 6
Correct Answer	[B] The negative under the root is simplified into i

10. The angle $\frac{3\pi}{2}$ converted to degrees is?

A. 90°

B. 270°

C. 30°

D. 60°

Correct Answer

[B]

Each π radian is equal to 180°

11. The distance between the parallel lines $y=5$ and $y=8$ is...

A. 3

B. 4

C. 5

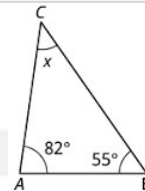
D. -3

Correct Answer

[A]

They are horizontal with 3 spaces in between.

12. What is the value of x?



A. 52

B. 34

C. 43

D. 27

Correct Answer

[C]

Total value of angles in a triangle is 180°

13. $y = 3x + 27$, what is the value of x if $y=36$?

A. 4

B. 6

C. 3

D. 8

Correct Answer

[C]

Substitute for y and solve.

14. $\begin{vmatrix} 3 & 4 \\ 2 & 1 \end{vmatrix} + \begin{vmatrix} 1 & 2 \\ 3 & 2 \end{vmatrix}$

A. $\begin{vmatrix} 4 & 3 \\ 2 & 1 \end{vmatrix}$

B. $\begin{vmatrix} 3 & 7 \\ 6 & 2 \end{vmatrix}$

C. $\begin{vmatrix} 4 & 6 \\ 5 & 3 \end{vmatrix}$

D. $\begin{vmatrix} 7 & 12 \\ 3 & 4 \end{vmatrix}$

Correct Answer

[C]

Addition of same place terms.

15. $i^{16} =$

A. i

B. 1

C. -1

D. -1

Correct Answer

[B]

16 is a multiple of 4

16. $(4 + 6i) - (-1 + 2i)$

A. $5 + 4i$

B. 5

C. $4i$

D. $-4i$

Correct Answer

[A]

Addition of like terms.

17. $\triangle ABC \approx \triangle EFG$

A. $A \approx G$

B. $B \approx C$

C. $A \approx E$

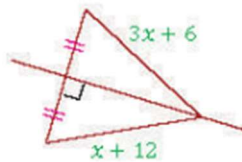
D. $\overline{AC} \approx \overline{EF}$

Correct Answer

[C]

Same place terms.

18.



$x = ?$

A. 3

B. 6

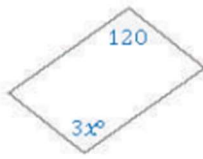
C. 9

D. 12

Correct Answer

[A]

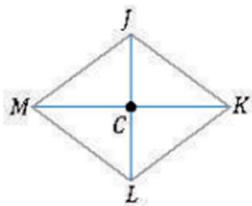
Both sides are equal.



19. $x=?$

- | | |
|-------|-------|
| A. 30 | B. 50 |
| C. 40 | D. 70 |

Correct Answer [C] Both angles are equal.



20. if $JK=10$, $CK=8$, what is JL ?

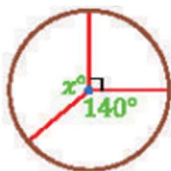
- | | |
|-------|------|
| A. 4 | B. 6 |
| C. 12 | D. 8 |

Correct Answer [B] Famous right triangle 6,8,10.

21. What is $(2, 3)$ after $(x + 2, y - 3)$?

- | | |
|------------|-------------|
| A. $(4,0)$ | B. $(0,4)$ |
| C. $(3,6)$ | D. $(-1,5)$ |

Correct Answer [A] Shifting.



22. $x=?$

- | | |
|--------|--------|
| A. 140 | B. 70 |
| C. 90 | D. 130 |

Correct Answer [D] Right angle = 90, $360-90-140=130$

23. $3y = 9x + 3$, what is the slope?

A. 9

B. 7

C. 3

D. 1

Correct Answer [C] Isolate y first.

24. $7y = 13x + 21$, what is the y-intercept?

A. 4

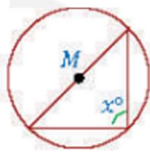
B. 3

C. 2

D. 21

Correct Answer [B] Isolate y first.

25.



$x = ?$

A. 70

B. 80

C. 90

D. 100

Correct Answer [C] Angle of diameter = 90.

26. What is the domain of $[x] - 2$

A. R

B. Z

C. $(2, -\infty)$

D. $(0, 2)$

Correct Answer [A] The domain is all real numbers. The range is integers only.

27. $\sqrt{-18}$

A. $9i$

B. $3i\sqrt{2}$

C. -18

D. $6i$

Correct Answer [B] The negative under the root becomes i.

28. $\frac{x+3}{x^2+b}$, the function has a horizontal asymptote at?

A. $Y = 0$

B. $Y = 1$

C. $Y = 3$

D. $Y = 9$

Correct Answer [A] The function can never be equal to 0.

29. $2 + 4 + 6 + \dots + 100$, the sum of this series is?

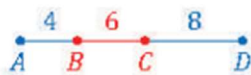
A. 550

B. 100

C. 2550

D. 2000

Correct Answer [C]



30. if a point is randomly placed on this number line, what is the probability it lies on the interval BC?

A. $1/2$

B. $1/3$

C. $1/4$

D. $1/5$

Correct Answer [B] 6 is a third of the total length (18)



31. What is the probability the arrow stops at the green part?

A. $1/2$

B. $1/3$

C. $1/4$

D. $1/5$

Correct Answer [C] 90 is a fourth of 360

32. If there's a 70% percent chance there will be rain, then what percent is a sunny weather likely to happen?

- | | |
|--------|--------|
| A. 10% | B. 20% |
| C. 30% | D. 40% |

Correct Answer [C] 100% - 70%

33. 30° in radians is?

- | | |
|------------|------------|
| A. 2π | B. 3π |
| C. $\pi/2$ | D. $\pi/6$ |

Correct Answer [D] $\pi = 180^\circ$

34. $2\pi = ?$

- | | |
|----------------|----------------|
| A. 180° | B. 260° |
| C. 360° | D. 270° |

Correct Answer [C] $\pi = 180^\circ$

35. Which angle has a positive cos?

- | | |
|----------------|----------------|
| A. 60° | B. 110° |
| C. 120° | D. 140° |

Correct Answer [A] First quadrant = all are positive.

36. In which 2 quadrants is the sin positive?

- | | |
|------------|------------|
| A. 1 and 2 | B. 2 and 3 |
| C. 3 and 4 | D. 1 and 3 |

Correct Answer [A]

37. $\cos 60^\circ = ?$

A. $1/2$

B. $3/2$

C. $4/3$

D. $2/3$

Correct Answer

[A]

38. $\sin 30^\circ = ?$

A. $1/2$

B. $1/3$

C. $3/2$

D. $4/3$

Correct Answer

[A]

39. $|x| + 2$

A. Quadratic

B. Absolute Value

C. Linear

D. Exponential

Correct Answer

[B]

40. $|x| + 2$, what value of y is possible?

A. -2

B. -1

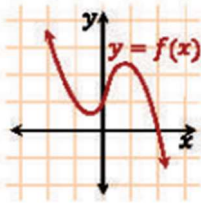
C. -3

D. 1

Correct Answer

[D]

Absolute value function is always positive.

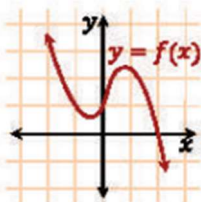


41. What is the y-intercept?

- | | |
|----------|----------|
| A. (0,1) | B. (0,2) |
| C. (1,2) | D. (2,3) |

Correct Answer

[A]



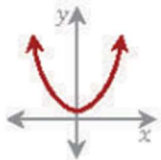
42. What is the slope?

- | | |
|------|-------------|
| A. 1 | B. 2 |
| C. 3 | D. Variable |

Correct Answer

[D]

The slope varies from one point to another.



43. What type of function is this?

- | | |
|---------|-----------------|
| A. Even | B. Odd |
| C. None | D. Asymmetrical |

Correct Answer

[A]

Quadratic functions are even.

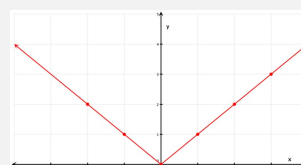
44. Which function of the following is even?

- | | |
|-------------------|--------------|
| A. Absolute value | B. Linear |
| C. Exponential | D. Logarithm |

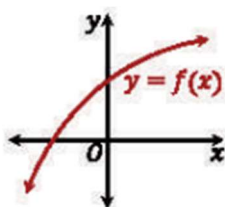
Correct Answer

[A]

By looking at the graph, we can find that it is symmetrical to the y-axis.



45.



The function is...

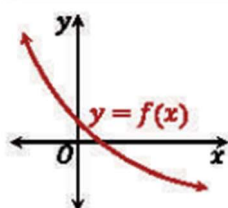
- | | |
|---------------|----------------------|
| A. increasing | B. decreasing |
| C. constant | D. None of the above |

Correct Answer

[A]

By observing the graph.

46.



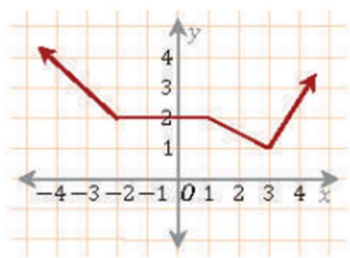
The function is...

- | | |
|---------------|----------------------|
| A. increasing | B. decreasing |
| C. constant | D. None of the above |

Correct Answer

[B]

By observing the graph.



47. In which interval is the function increasing?

A. $(-\infty, -2)$

B. $(-2, 1)$

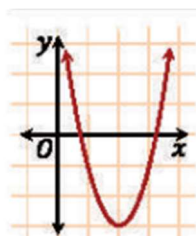
C. $(2, 3)$

D. $(3, \infty)$

Correct Answer

[D]

By observing the graph.



48. What is the parent function?

A. $f(x) = x^2$

B. $f(x) = |x|$

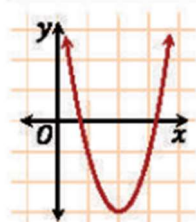
C. $f(x) = x$

D. $f(x) = \sqrt{x}$

Correct Answer

[A]

It is a quadratic function.



49. Where is the minimum?

A. $(0, 1)$

B. $(2, 1)$

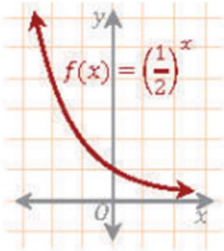
C. $(3, 2)$

D. $(2, -3)$

Correct Answer

[D]

By observing the graph.



50. What is the range of this function?

A. \mathbb{R}^+	B. \mathbb{R}
C. \mathbb{Z}	D. \mathbb{W}
Correct Answer	[A] All positive numbers only.

51. If we have $\log_2 81 = 4$, then $\log_2 (2t+2) =$

A. 6	B. 5
C. 4	D. 3
Correct Answer	[D] Using the first equation, we find t then substitute it in the other equation.

52. We have 9 cards numbered 1 to 9. Two cards are drawn at random. What is the probability that the sum of the drawn cards is a prime number less than 9?

A. $1/2$	B. $1/3$
C. $1/4$	D. $1/6$
Correct Answer	[D]

53. Let x be a positive number satisfying $9x - 4 \times 3x = 45$, then x is:

A. 5	B. 3
C. 4	D. 2
Correct Answer	[D] By solving the quadratic equation and isolating x.

54. The equation $2x^2 + 3y^2 + 4x - 6y + 11 = 0$ represents:

A. ellipse

B. parabola

C. Empty set

D. hyperbola

Correct Answer

[C]

By eliminating every incorrect answer choice. The equation doesn't satisfy a shape.

$$\sum_{n=1}^{\infty} \frac{1}{n(n+1)} =$$

55.

A. 1

B. 2

C. 3

D. 4

Correct Answer

[A]

The summation of numbers less than 1 to infinite equals 1.

56. Let f be a function defined on the real numbers as $f(x) = x \cdot |x|$, then f is:

A. increasing

B. decreasing

C. constant

D. variable

Correct Answer

[A]

It is an even function, meaning it is always positive.

57. $9^{x+2} = 3^{x+7}$

A. 6

B. 5

C. 3

D. 4

Correct Answer

[C]

Convert the 9 to a 3^2 .

58. $\log_8 16 = x$

A. $4/3$

B. 5

C. $1/2$

D. $1/3$

Correct Answer [A] 8 to the power of $4/3$ is 16.

59. $\log_x x^n = ?$

A. x

B. y

C. n

D. x^2

Correct Answer [C] X to the power of n is the same result.

60. The common ratio in the convergent geometric series is:

A. 1

B. 0

C. $|r| < 1$

D. $|r| > 1$

Correct Answer [C] The infinite geometric series is convergent and has a summation.

61. What is the y-intercept of $y = \log_2(x + 1) + 3$

A. 2

B. 1

C. -1

D. 3

Correct Answer [D] It is where the function touches the y axis, in this case, it is 3. Substitute x for 0.

62. If $f(x) = 4x - 3$, then what is $f(-2)$?

A. -9

B. -10

C. -11

D. -12

Correct Answer [C] Basic substitution.

63. If $n! = 120$, what is n ?

A. 6

B. 5

C. 4

D. 3

Correct Answer [B] $5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$

64. $\langle 2, 3 \rangle + \langle 2, 3 \rangle$

A. $\langle 4, 2 \rangle$

B. $\langle 4, 6 \rangle$

C. $\langle 6, 4 \rangle$

D. $\langle 4, 7 \rangle$

Correct Answer [B] Adding the same place terms in the vectors.

65. $2 \times \langle 2, 4 \rangle$

A. $\langle 6, 3 \rangle$

B. $\langle 4, 8 \rangle$

C. $\langle 7, 6 \rangle$

D. $\langle 4, 9 \rangle$

Correct Answer [B] Multiplying a scalar quantity by a vector.

66. The angle of $5 \left(\cos \frac{\pi}{6} + i \sin \frac{\pi}{6} \right)$ is:

A. 40°

B. 30°

C. 60°

D. 70°

Correct Answer [B] By converting the radian angle to degrees.

67. Each non collinear three points are passing through...

A. 3 planes

B. 2 planes

C. A straight line

D. A plane

Correct Answer [D]

68. If two straight lines intersect, they intersect at...

- | | |
|--------------------|-------------|
| A. A straight line | B. A plane |
| C. A point | D. An angle |

Correct Answer [C]

69. If the measures of two angles in a triangle are 35° , 55° , then what is the type of the triangle?

- | | |
|-----------|----------------|
| A. Acute | B. right |
| C. obtuse | D. equilateral |

Correct Answer [B] The third angle is 90°

70. x is changing inversely with y. $x = 24$ when $y = 4$ find x when $y = 12$

- | | |
|------|------|
| A. 1 | B. 2 |
| C. 4 | D. 8 |

Correct Answer [D] They are inversely proportional, so the product should be the same in both situations.

71. Which of the following lines is parallel to $y - 2x = 2$

- | | |
|-----------------|-----------------|
| A. $y - 4x = 2$ | B. $Y = 2 - 2x$ |
| C. $Y = 2x + 4$ | D. $Y = 7x - 3$ |

Correct Answer [C] Look for the same slope.

72. The y-intercept of $y = 4x + 3$ is:

- | | |
|------|------|
| A. 3 | B. 4 |
| C. 2 | D. 1 |

Correct Answer [A] The initial is the y-intercept.

73. The equation of the vertical line that has x – intercept $x=6$ is:

A. $X=4$

B. $X=6$

C. $X=7$

D. $X=5$

Correct Answer [B] The same line doesn't change vertically.

74. The parabola $(y-6)^2 = -5(x-3)$ the axis of symmetry is:

A. $Y=5$

B. $Y=6$

C. $Y=-6$

D. $X=3$

Correct Answer [B] It is a horizontal parabola.

75. The parabola $y^2 = 12x$ is opened toward:

A. up

B. down

C. left

D. right

Correct Answer [D] It is a positive horizontal parabola.

76. If you roll a dice, what is the probability it is an even number?

A. $1/2$

B. $1/3$

C. $1/4$

D. $1/5$

Correct Answer [A] Even numbers are half the numbers on a dice.

77. What is the probability of getting heads if you toss a coin?

A. $1/3$

B. $2/4$

C. $1/5$

D. $2/5$

Correct Answer [B] $2/4 = 1/2$

78. What is the probability of getting heads and an even number if you toss a coin and a dice?

- | | |
|------------------|------------------|
| A. $\frac{1}{2}$ | B. $\frac{1}{4}$ |
| C. $\frac{1}{6}$ | D. $\frac{1}{5}$ |

Correct Answer [B] $\frac{1}{2} \times \frac{1}{2}$

79. What is the mean in the following terms? 1,2,3,4,5,6

- | | |
|--------|------|
| A. 2 | B. 3 |
| C. 3.5 | D. 4 |

Correct Answer [C] Add all then divide over their number.

80. What is the median in the following terms? 1,2,3,4,5,6,7

- | | |
|------|------|
| A. 2 | B. 3 |
| C. 4 | D. 5 |

Correct Answer [C] The median is the middle term, not the average.

81. What is the mode in the following terms? 1,2,2,3,4,5,6

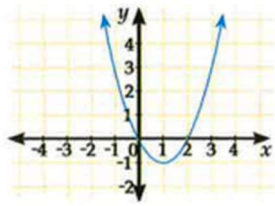
- | | |
|------|------|
| A. 2 | B. 3 |
| C. 4 | D. 5 |

Correct Answer [A] The mode is the most repeated term.

82. If $x = 3$, find $3x-3$.

- | | |
|------|------|
| A. 5 | B. 6 |
| C. 7 | D. 8 |

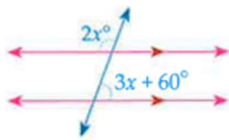
Correct Answer [B] Basic substitution.



83. Where is the function increasing?

A. $(-1, 2)$	B. $(0, 1)$
C. $(1, \infty)$	D. $(-\infty, 1)$

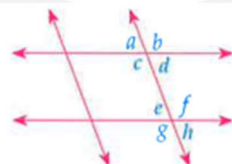
Correct Answer	[C]	By observing the graph.
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84. $x = ?$

A. 60	B. 24
C. 30	D. 90

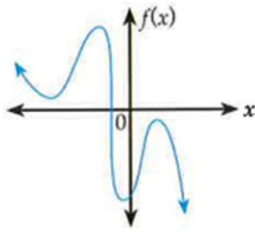
Correct Answer	[B]	They are complimentary angles, meaning they are equal to 180 if added.
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85. Find $a + d + f + g$

A. 180°	B. 120°
C. 400°	D. 360°

Correct Answer	[D]	They complete a full round.
----------------	-----	-----------------------------



86. How many zeroes are there?

A. 1	B. 2
C. 3	D. 4

Correct Answer [A] The graph crosses the x-axis at one point only.

87. $\lim_{x \rightarrow 3} x + 6$

A. 9	B. 6
C. 3	D. 12

Correct Answer [A] By substitution.

88. Find the derivative of x^2 .

A. x^4	B. x^2
C. $2x^2$	D. $2x$

Correct Answer [D] The power comes down as a coefficient, and it decreases by 1.

89. What is the derivative of $3x^3$?

A. $2x^2$	B. $3x^2$
C. $4x$	D. $9x^2$

Correct Answer [D] The power comes down as a coefficient, and it decreases by 1.

90. Find the second derivative of $3x^3$?

A. $18x$

B. $9x^2$

C. $3x^3$

D. $2x^2$

Correct Answer

[A]

The power comes down as a coefficient, and it decreases by 1. Repeat twice for the second derivative.

91. What is the derivative of e^x ?

A. xe

B. e^x

C. e^2

D. 0

Correct Answer

[B]

The derivative of e^x is itself.

92. Find the derivative of 3.

A. x^3

B. 0

C. 3

D. $3x$

Correct Answer

[B]

The derivative of a constant is 0.

93. What is the integration of 0?

A. C

B. 1

C. 2

D. 3

Correct Answer

[A]

The integration of a constant is unknown. We represent it with the variable C.

94. Find the integration $2x$.

A. x^2

B. $3x$

C. $2x$

D. x

Correct Answer

[A]

By reversing the steps of finding a derivative.

95. If function a is even, and function b is even, what is a x b?

A. even

B. odd

C. variable

D. Not even nor odd

Correct Answer

[A]

Even x even = even.

96.  what is the measure of the third angle?

A. 30°

B. 40°

C. 50°

D. 60°

Correct Answer

[A]

The total should be 180°.

97. If 2 sides in a triangle are equal, what is its type?

A. right

B. acute

C. equilateral

D. isosceles

Correct Answer

[D]

98. If one of the angles in a triangle is more than 90°, then it is:

A. right

B. acute

C. obtuse

D. none

Correct Answer

[C]

99. If $\cos t = \frac{2}{3}$ and $\sin t = \frac{1}{3}$, then $\tan t = ?$

A. $\frac{1}{2}$

B. $\frac{1}{3}$

C. $\frac{1}{4}$

D. $\frac{1}{5}$

Correct Answer

[A]

Tan = sin/cos

100. $\cos t = 1/3$ and $\sin t = 1/3$, then $\tan t = ?$

A. 1

B. 2

C. 3

D. 4

Correct Answer [A] $\tan = \sin/\cos$

101. $Y = 0.5^x + 2$

A. Exponential growth

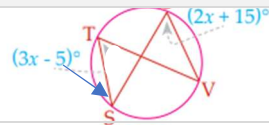
B. Exponential decay

C. Increasing linear

D. Decreasing linear

Correct Answer [B] The base is between 1 and 0 (0.5)

102. In the opposite figure; find the value of x ?



A. 10

B. 15

C. 20

D. 25

Correct Answer [C] The angles are equal.

103. The parabola whose equation $x^2 = 8(y - 4)$ is opened to:

A. up

B. down

C. Left

D. right

Correct Answer [A] Positive x squared

104. The vertex of the parabola whose equation $(y - 5)^2 = 12(x + 3)$ is:

A. (-3,-5)

B. (-3,5)

C. (-5,-3)

D. (5,3)

Correct Answer [B] According to the equation.

105. The parabola whose equation $-x^2 = 9(y - 8)$ is opened to:

A. up	B. down
C. Left	D. right
Correct Answer	[B] Negative x squared

106. Find the exact value of $\cos 135^\circ$?

A. $-\frac{\sqrt{2}}{2}$	B. $\frac{\sqrt{2}}{2}$
C. $\frac{2}{3}$	D. $\frac{3}{2}$
Correct Answer	[A] Using reference angles, we plug them into the equation of cos addition, (60 and 45)

107. What is the exact value of $\sin 240^\circ$?

A. $-\frac{\sqrt{2}}{2}$	B. $\frac{\sqrt{2}}{2}$
C. $-\frac{\sqrt{3}}{2}$	D. $\frac{\sqrt{3}}{2}$
Correct Answer	[C] Using reference angles, we plug them into the equation of sin addition

108. The reference angle for the angle with measure 150° equals:

A. 45	B. 40
C. 30	D. 60
Correct Answer	[C] It is 30 degrees away from the x axis.

109. Find the degree measure of the angle with radian measure 3π ?

A. 540	B. 360
C. 720	D. 240
Correct Answer	[A] Each radian equals 180 degrees.

110. $\lim_{x \rightarrow \infty} \frac{2x^2 - 5x}{7 - 3x}$		
A. infinite	B. 1	
C. 2/3	D. 0	
Correct Answer	[D]	The higher power is in the denominator.
111. Nayef can invite two of his friends to have dinner with him, if he has four friends, by how many ways he can choose them?		
A. 3	B. 4	
C. 5	D. 6	
Correct Answer	[B]	By multiplying the possibilities. 2x2
112. How many ways can 4 people sit a round table?		
A. 9	B. 5	
C. 24	D. 30	
Correct Answer	[A]	It is without a point of reference.
113. $y = x^2$, what degree is this equation?		
A. 1	B. 2	
C. 3	D. 4	
Correct Answer	[B]	The highest power.
114. $y = x^4 z^5$, what degree is this equation?		
A. 4	B. 5	
C. 7	D. 9	
Correct Answer	[D]	By adding all the powers in a multiplied side.

115. $y = x^3 + 2x$, what degree is this equation?

A. 1 B. 2

C. 3 D. 4

Correct Answer [C] The highest power.

116. There are 3 cars, 3 colors, and 3 types. In how many ways can you arrange a car?

A. 3 B. 6

C. 9 D. 12

Correct Answer [C] By multiplying all the categories.

117. If you have 2 red marbles, and 3 blue marbles in a bag, what is the possibility you pull out a marble from the bag?

A. $1/2$ B. $2/5$

C. $3/5$ D. $5/5$

Correct Answer [D] You are guaranteed to pull out a marble regardless of its color.

118. You have 3 jackets, 5 pants, 6 shoes, and 2 socks. In how many ways can you arrange an outfit?

A. 120 B. 180

C. 150 D. 130

Correct Answer [B] By multiplying all the categories together.

119. $1/\cos \theta$

A. csc B. sec

C. sin D. tan

Correct Answer [B]

120. $\frac{1}{\sin \theta}$

A. csc

B. sec

C. sin

D. tan

Correct Answer [A]

121. $\cot \theta = \frac{1}{2}$, then $\tan \theta =$

A. 2

B. 3

C. 4

D. 5

Correct Answer [A] $\cot = \frac{1}{\tan}$

122. If the sides of a triangle are 2 and 3, what is the length of the hypotenuse?

A. 6

B. 5

C. 3

D. 7

Correct Answer [B] Using the Pythagorean theorem.

123. If two sides of a triangle are 3 and 6, what could be the 3rd side?

A. $3\sqrt{5}$

B. $\sqrt{9}$

C. $2\sqrt{3}$

D. 5

Correct Answer [A] Using the Pythagorean theorem.

124. If the hypotenuse of a triangle is 10, and one of its sides is 8, what is the 3rd side equal to?

A. 5

B. 6

C. 7

D. 8

Correct Answer [B] Famous 6,8,10 triangle.

125. If $\tan t = 2/3$, what is $\sin t / \cos t$?

A. $3/5$

B. $2/3$

C. $2/7$

D. $1/2$

Correct Answer [B] $\tan = \sin / \cos$