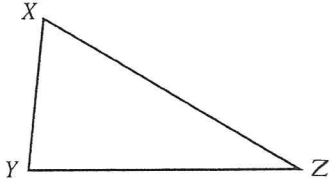




15. What polynomial must be added to $x^2 - 2x + 6$ so that the sum is $3x^2 + 7x$?
- A. $4x^2 + 5x + 6$
 B. $3x^2 + 9x + 6$
 C. $3x^2 + 9x - 6$
 D. $2x^2 + 9x - 6$
 E. $2x^2 - 5x + 6$
16. What is the slope of any line parallel to the line $8x + 9y = 3$ in the standard (x,y) coordinate plane?
- F. -8
 G. $-\frac{8}{9}$
 H. $\frac{8}{3}$
 J. 3
 K. 8
17. In the standard (x,y) coordinate plane, a line segment has its endpoints at $(3,6)$ and $(9,4)$. What are the coordinates of the midpoint of the line segment?
- A. $(3, -1)$
 B. $(3, 1)$
 C. $(6, 2)$
 D. $(6, 5)$
 E. $(12, 10)$
18. When $y = x^2$, which of the following expressions is equivalent to $-y$?
- F. $(-x)^2$
 G. $-x^2$
 H. $-x$
 J. x^{-2}
 K. x
19. For the function $h(x) = 4x^2 - 5x$, what is the value of $h(-3)$?
- A. -93
 B. -9
 C. 21
 D. 51
 E. 159
20. For all triangles $\triangle XYZ$ where side \overline{XZ} is longer than side \overline{YZ} , such as the triangle shown below, which of the following statements is true?
- 
- F. The measure of $\angle X$ is always less than the measure of $\angle Y$.
 G. The measure of $\angle X$ is always equal to the measure of $\angle Y$.
 H. The measure of $\angle X$ is always greater than the measure of $\angle Y$.
 J. The measure of $\angle X$ is sometimes less than the measure of $\angle Y$ and sometimes equal to the measure of $\angle Y$.
 K. The measure of $\angle X$ is sometimes greater than the measure of $\angle Y$ and sometimes equal to the measure of $\angle Y$.
21. $|7(-3) + 2(4)| = ?$
- A. -28
 B. -13
 C. 13
 D. 28
 E. 29
22. If $x > |y|$, which of the following is the solution statement for x when $y = -4$?
- F. x is any real number.
 G. $x > 4$
 H. $x < 4$
 J. $-4 < x < 4$
 K. $x > 4$ or $x < -4$
23. The perimeter of a parallelogram is 72 inches, and 1 side measures 12 inches. What are the lengths, in inches, of the other 3 sides?
- A. 12, 12, 36
 B. 12, 18, 18
 C. 12, 24, 24
 D. 12, 30, 30
 E. Cannot be determined from the given information
24. The lengths of the corresponding sides of 2 similar right triangles are in the ratio of 2:5. If the hypotenuse of the smaller triangle is 5 inches long, how many inches long is the hypotenuse of the larger triangle?
- F. 2
 G. 2.5
 H. 7
 J. 10
 K. 12.5

BELLWORK ANSWERS

15. D

16. G

17. D

18. G

19. D

20. F

21. C

22. G

23. C

24. K