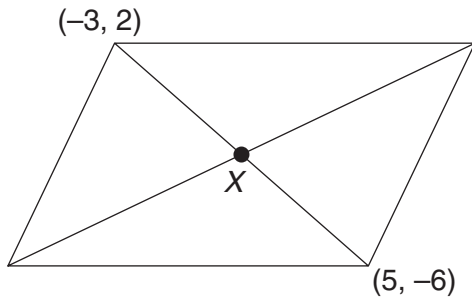


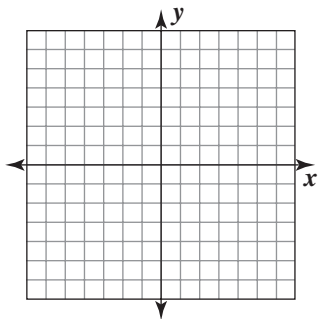
GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
MA.912.G.3.3 Benchmark Pre-Test (Multiple Choice)

1. The parallelogram shown has two vertices as indicated. The diagonals of the parallelogram intersect at point X .



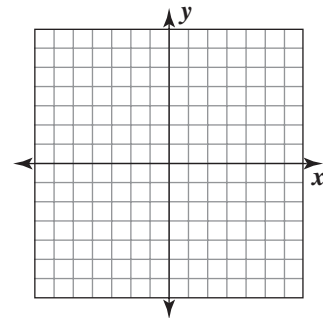
Which of the following are the coordinates of X ?

- A. $(-4, 4)$
 - B. $(1, -2)$
 - C. $(2, -4)$
 - D. $(-2, 1)$
2. Which ordered pair could represent the fourth vertex of a trapezoid if the other three vertices are $(4, -1)$, $(-1, 1)$, and $(-2, -3)$?



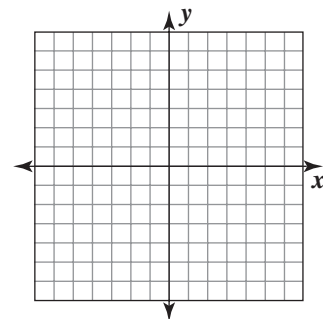
- F. $(0, -1)$
- G. $(2, 2)$
- H. $(1, 5)$
- I. $(3, 1)$

3. Three vertices of a square lie at the points whose coordinates are $(-10, 0)$, $(-2, 6)$ and $(4, -2)$. What are the coordinates of the fourth vertex?



- A. $(-4, -8)$
- B. $(-2, -8)$
- C. $(-2, -6)$
- D. $(5, 0)$

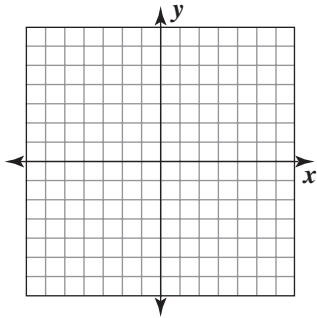
4. Quadrilateral $MATH$ has vertices $M(1, 1)$, $A(5, 2)$, $T(6, -2)$ and $H(2, -3)$. What is the most precise name for quadrilateral $MATH$?



- F. rhombus
- G. square
- H. kite
- I. parallelogram

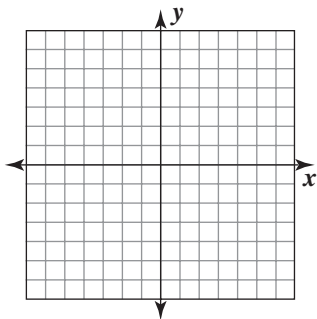
GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
10 MA.912.G.3.3 Benchmark Pre-Test (Multiple Choice)

5. Three vertices of a right trapezoid are $(1, 2)$, $(6, 2)$, and $(8, 6)$. Which of the following can be the coordinates of the fourth vertex?



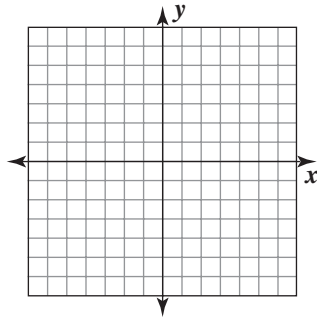
- A. $(1, 6)$
- B. $(1, 7)$
- C. $(2, 6)$
- D. $(3, 6)$

6. Square $PQRS$ has vertices $P(-1, -1)$, $Q(-1, 5)$, $R(5, 5)$, and $S(5, -1)$. Square $PQRS$ is congruent to square $ABCD$. What is the perimeter of square $ABCD$?



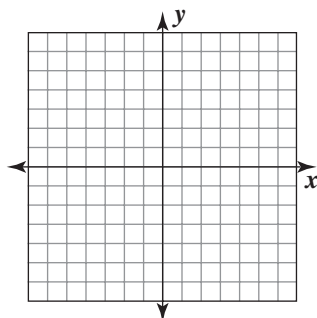
- F. 6
- G. 24
- H. 30
- I. 36

7. Rhombus $HIJK$ has vertices $H(3, 4)$, and $J(5, 0)$. What is the slope of diagonal \overline{IK} ?



- A. -2
- B. $-\frac{1}{2}$
- C. $\frac{1}{2}$
- D. 2

8. Rectangle $DEFG$ has coordinates $D(-1, -1)$, $E(-1, 7)$, $F(1, 7)$ and $G(1, -1)$. If $DEFG$ is similar to rectangle $MNOP$, and $MN = 12$, what is the area of $MNOP$?



- F. 16
- G. 20
- H. 30
- I. 36