

Question 4.

The statement “A number multiplied by itself is the number added to itself” is represented by which of these equations?

- A $n = 2n$
- B $n = n + 1$
- C $n^2 = 2n$
- D $2n = n + 1$
- E none of the above

Question 5.

Using a graphing calculator or coordinate grids, do the graphs of $f(x) = x + 2$ and $g(x) = x^2 - 2x - 4$ intersect?

- A No, they do not intersect.
- B Yes, they intersect at one point.
- C Yes, they intersect at two points.
- D Yes, they intersect at three points.
- E Not enough information is given to determine whether the graphs intersect.

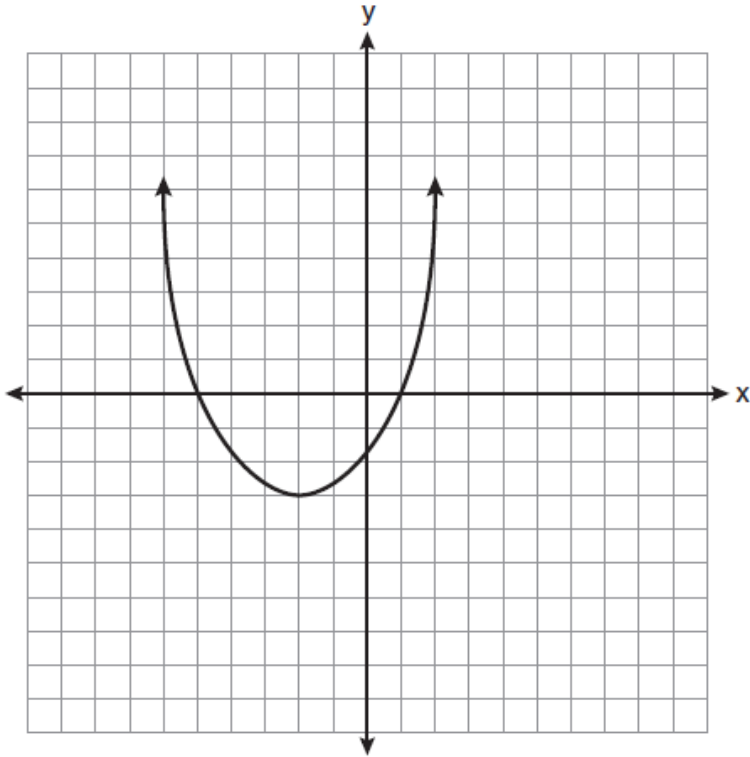
Question 6.

When $3x + 2 \leq 5(x - 4)$ is solved for x , the solution is

- (1) $x \leq 3$
- (2) $x \geq 3$
- (3) $x \leq -11$
- (4) $x \geq 11$

Question 7.

What are the vertex and the axis of symmetry of the parabola shown in the diagram below?



- (1) The vertex is $(-2, -3)$, and the axis of symmetry is $x = -2$.
- (2) The vertex is $(-2, -3)$, and the axis of symmetry is $y = -2$.
- (3) The vertex is $(-3, -2)$, and the axis of symmetry is $y = -2$.
- (4) The vertex is $(-3, -2)$, and the axis of symmetry is $x = -2$.

