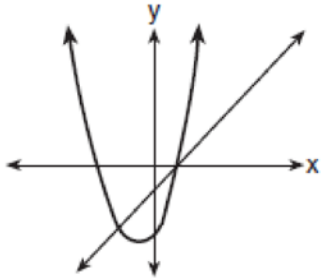


A.REI.C.7: Quadratic-Linear Systems 3

- 1 The accompanying diagram shows the graphs of a linear equation and a quadratic equation.



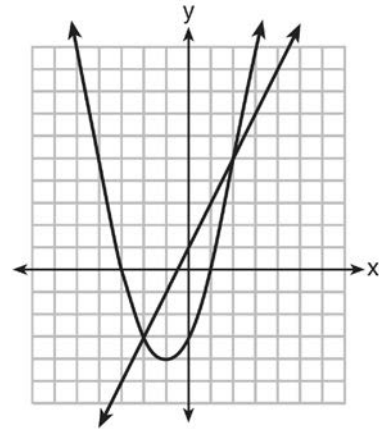
How many solutions are there to this system of equations?

- 1) 1
- 2) 2
- 3) 3
- 4) 0

- 2 What is the solution of the system of equations graphed below?

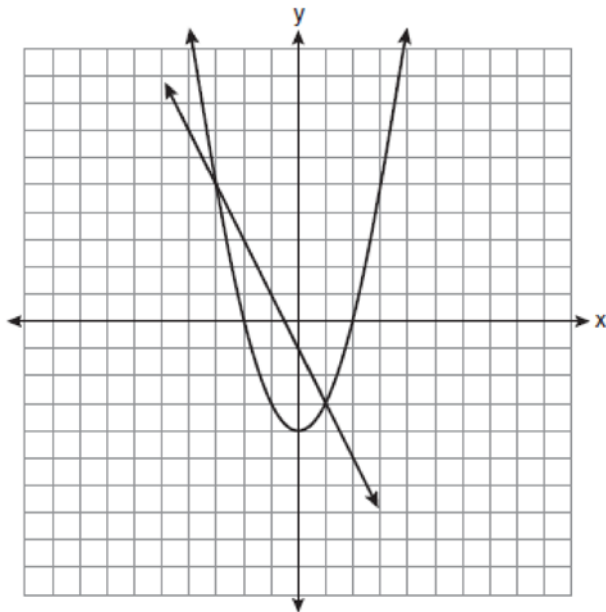
$$y = 2x + 1$$

$$y = x^2 + 2x - 3$$



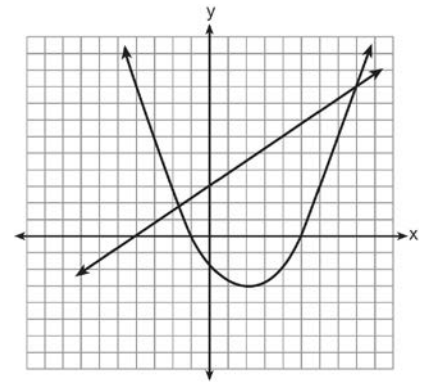
- 1) $(0, -3)$
- 2) $(-1, -4)$
- 3) $(-3, 0)$ and $(1, 0)$
- 4) $(-2, -3)$ and $(2, 5)$

- 3 Which ordered pair is a solution of the system of equations shown in the graph below?



- 1) $(-3, 1)$
- 2) $(-3, 5)$
- 3) $(0, -1)$
- 4) $(0, -4)$

- 4 Two equations were graphed on the set of axes below.



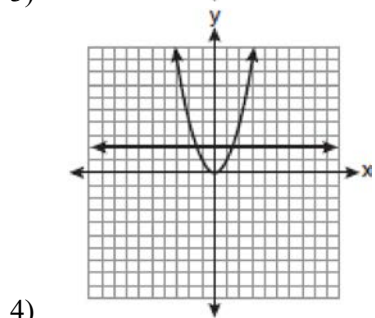
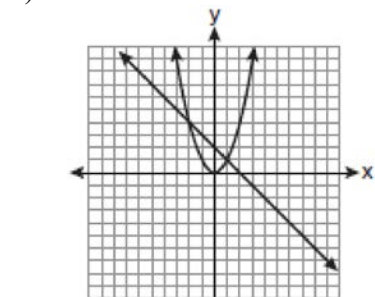
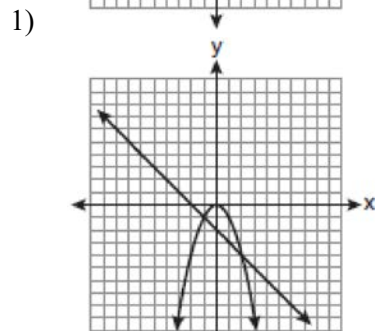
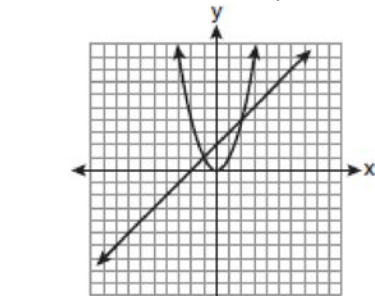
Which point is a solution of the system of equations shown on the graph?

- 1) $(8, 9)$
- 2) $(5, 0)$
- 3) $(0, 3)$
- 4) $(2, -3)$

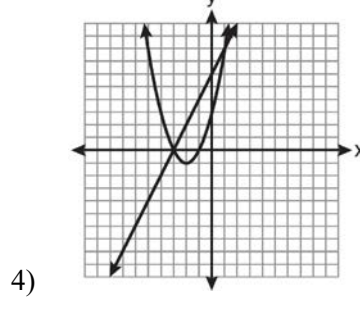
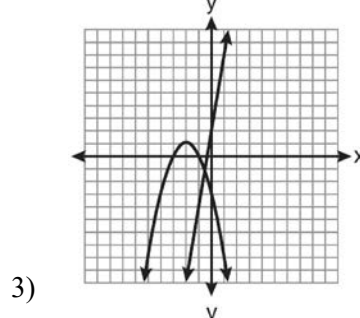
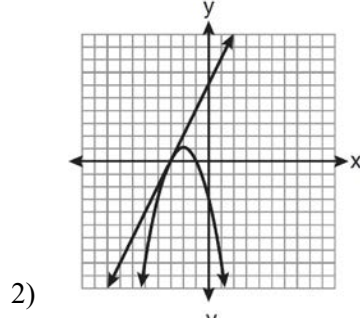
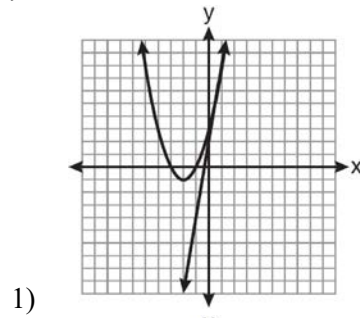
- 5 Which graph could be used to find the solution to the following system of equations?

$$y = -x + 2$$

$$y = x^2$$



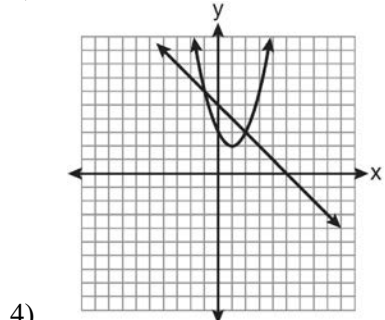
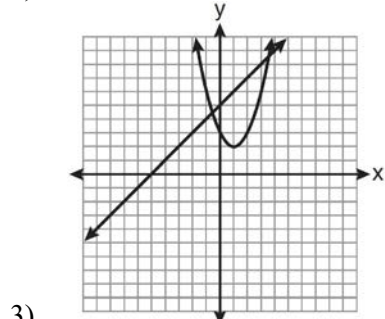
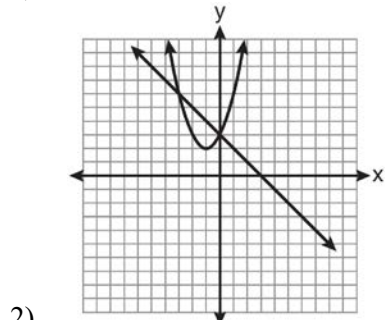
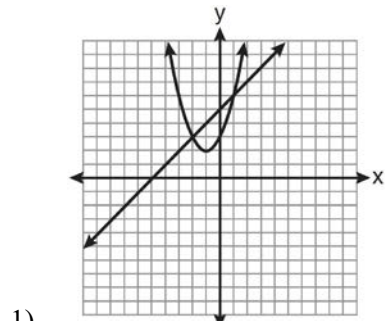
- 6 Which graph could be used to find the solution of the system of equations $y = 2x + 6$ and $y = x^2 + 4x + 3$?



- 7 Which graph can be used to find the solution of the following system of equations?

$$y = x^2 + 2x + 3$$

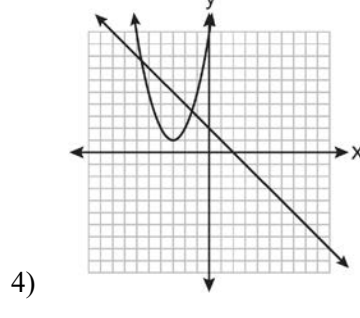
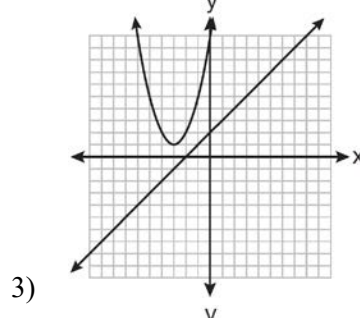
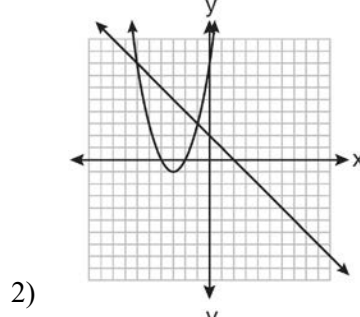
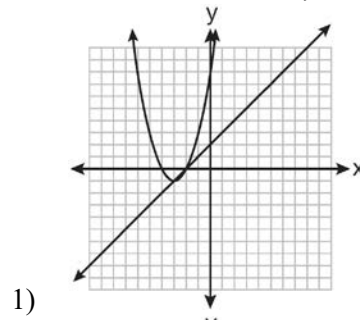
$$2y - 2x = 10$$



8 Which graph could be used to find the solution to the following system of equations?

$$y = (x + 3)^2 - 1$$

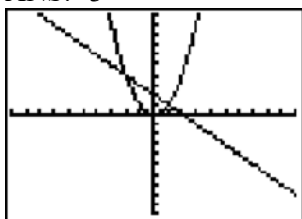
$$x + y = 2$$



A.REI.C.7: Quadratic-Linear Systems 3

Answer Section

- 1 ANS: 2 REF: 060507a
 2 ANS: 4 REF: 011501ge
 3 ANS: 2 REF: 011012ia
 4 ANS: 1 REF: 011207ia
 5 ANS: 3



REF: fall0805ge

- 6 ANS: 4 REF: 011102ia
 7 ANS: 1

$$2y - 2x = 10 \quad \text{axis of symmetry: } x = \frac{-b}{2a} = \frac{-2}{2(1)} = -1$$

$$2y = 2x + 10$$

$$y = x + 5$$

REF: 081010ia

- 8 ANS: 2 REF: 061313ge