

Name:  
Period:  
Date:

## Practice Test: Graphing Parabolas

complete the square only!

**Box your answers**

①  $y = x^2 - 2x + 3$     ②  $y = x^2 - 14x + 30$     ③  $y = x^2 + 22x + 1$

④  $3(2-5)^2 + 17$

⑤  $(3-2 \cdot 5) + (2+8^2)$

⑥  $(3+4 \cdot 3 - 2^2) + 7$

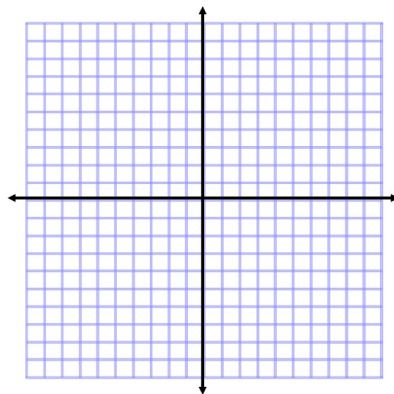
⑦  $(3+1) + 2(5-7)^2$

⑧  $-5(1-8) + 4(2-7)$

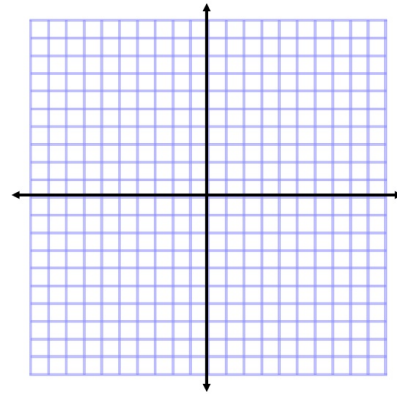
⑨  $2(2+5)^2 - (5-8)$

Graph each

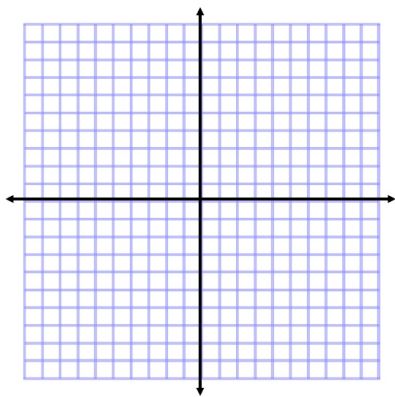
⑩  $y = (x-3)^2 + 6$



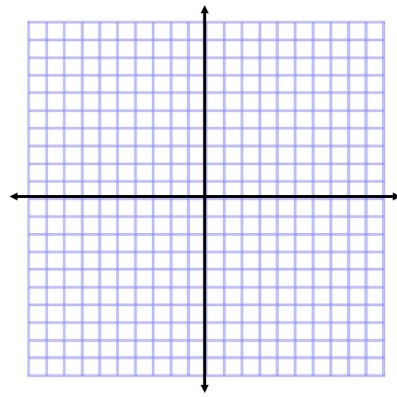
⑪  $y = -2(x+3)^2 + 3$



$$\textcircled{12} \quad y = 4(x-1)^2 - 4$$

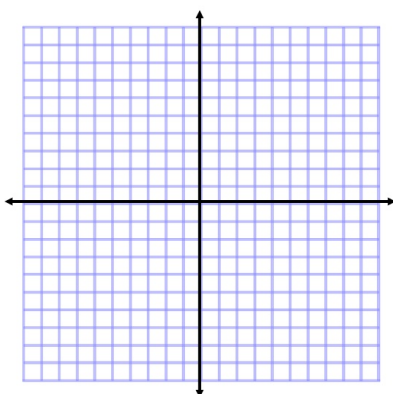


$$\textcircled{13} \quad y = -1(x+4)^2 + 2$$

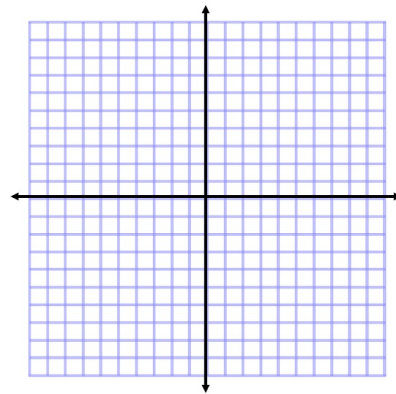


Complete the square, then graph

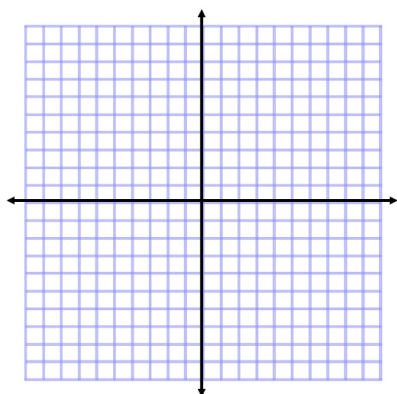
$$\textcircled{14} \quad y = x^2 + 10x + 21$$



$$\textcircled{15} \quad y = x^2 - 4x + 5$$



$$\textcircled{16} \quad y = x^2 - 12x + 37$$



$$\textcircled{17} \quad y = x^2 + 8x + 20$$

