

Rewrite the following equations from vertex form to standard form.

17. $y = 2(x + 5)^2 + 6$

$$y = 2x^2 + 20x + 56$$

18. $y = -3(x + 1)^2 - 4$

$$y = -3x^2 - 6x - 7$$

19. $y = (x - 1)^2 - 6$

$$y = x^2 - 2x - 5$$

20. $y = 4(x + 2)^2 + 6$

$$y = 4x^2 + 16x + 21$$

21. $y = -2(x + 5)^2 - 10$

$$y = -2x^2 - 20x - 60$$

22. $y = 3(x - 4)^2 - 20$

$$y = 3x^2 - 24x + 28$$

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

$$y = -x^2 - 6x - 10$$

24. $y = -5(x + 3)^2 + 20$

$$y = -5x^2 - 30x - 25$$