

1-Choose the vertex form for each equation

8. $y = x^2 + 9x + 8$

A

$\left(x + \frac{9}{2}\right)^2 - \frac{49}{4}$

B

$y = 3\left(x + \frac{5}{3}\right)^2 - \frac{25}{3}$

9. $y = x^2 - 6x + 3$

A

$y = (x - 2)^2 + 5$

B

$y = (x - 3)^2 - 6$

10. $y = -2x^2 + 5x$

A

$y = -2\left(x - \frac{5}{4}\right)^2 + \frac{25}{8}$

B

$y = (x + 4)^2$

17. $y = -4x^2 - 24x - 15$

A

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

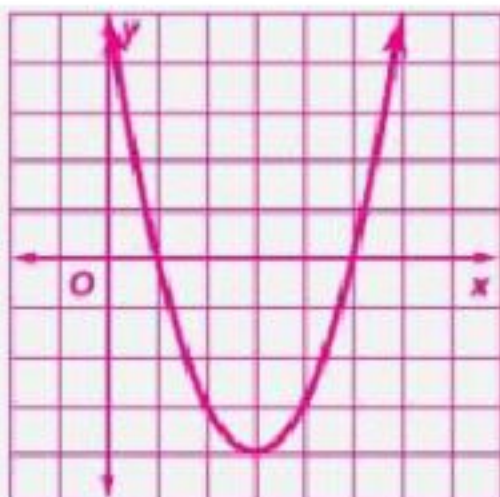
B

$y = -4(x + 3)^2 + 21$

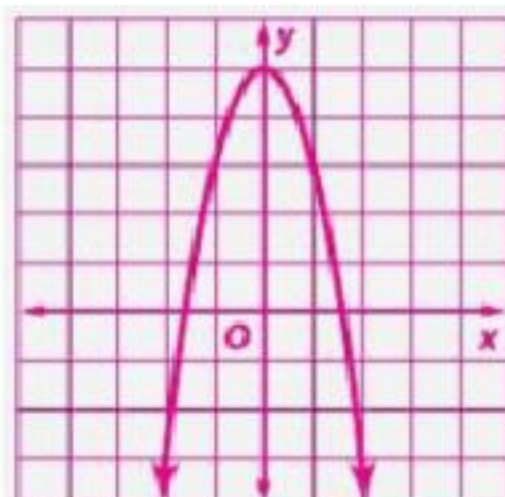
20. **FIREWORKS** During a National Day fireworks show, the height h in meters of a specific rocket after t seconds can be modeled by $h = -4.9(t - 4)^2 + 80$. Graph the function.

Choose one

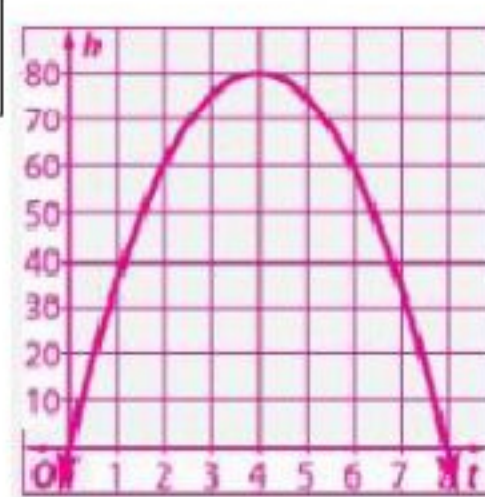
A



B



C



GOOD LUCK