

# SAI Prep

## Bellwork Wednesday 11/8

The graphs in the xy-plane of the following quadratic equations each have x-intercepts of -2 and 4.

The graph of which equation has its vertex farthest from the x-axis?

A.  $y = 7(x+2)(x-4)$  *v. stretch*

B.  $y = \frac{1}{10}(x+2)(x-4)$

C.  $y = -\frac{1}{2}(x+2)(x-4)$

D.  $y = 5(x+2)(x-4)$  *v. stretch*

$a > 1$  v. stretch.



$a$

v. stretch  
 $|a| > 1$

v. shrink  
 $0 < |a| < 1$

Reflects.  
 $a < 0$



x-coord.

$$\frac{-2+4}{2} = \frac{2}{2} = 1$$