

Name:

Period:

Date:

Graphing  $y-k = a(x-h)^2$  WS

Graph the following parabolas using the steps from class.

①  $y + 6 = 2(x+1)^2$

②  $y + 1 = 3(x+2)^2$

③  $y - 1 = \frac{1}{3}(x+2)^2$

④  $y + 1 = -3(x-2)^2$

⑤  $y - 1 = -\frac{1}{3}(x-2)^2$

⑥  $y = -\frac{1}{3}(x-2)^2$

Hint: same as  $y - 0 = -\frac{1}{3}(x-2)^2$

⑦  $y - 1 = -\frac{1}{3}(x-2)^2$

⑧  $y + 4 = 2x^2$

Hint: same as  $y + 4 = 2(x-0)^2$