Math 3 **Name:_____**

Unit 3 Day 3 CW **Name:_____**

1. Write an equation that will move the graph of the function $y=x^4$ right 4 units and reflect over the x-axis.

2. The equation $y = (x+3)^2 - 2$ moves the parent function $y = x^2$ right 3 units and down 2 units.
True or False

3. Write an equation that will move the graph of the function $y = x^3$ down 7 units with a horizontal stretch of 3.

4. The equation $y = (x-8)^2 + 5$ moves the parent function $y = x^2$ right 8 units and down 5 units.
True or False

5. Write an equation that will move the graph of the function $y=x^4$ left 2 units and up 6 units with a reflection across the y-axis.

6. Which equation will shift the graph of $y = x^2$ left 5 units and up 6 units?

a. $y = (x+6)^2 - 5$ b. $y = (x+5)^2 - 6$ c. $y = (x+5)^2 + 6$ d. $y = (x-5)^2 + 6$

7. Write an equation that will move the graph of the function $y=x^4$ right 3 units up 2 units with a vertical stretch by 1/2.

8. Which equation will shift the graph of $y = x^2$ right 8 units and down 4 units?

a. $y = (x+8)^2 - 4$ b. $y = (x+4)^2 - 8$ c. $y = (x-4)^2 + 8$ d. $y = (x-8)^2 - 4$