

## SM2-A HW #5-7 (Vertex Form-Take Square roots)

Period \_\_\_\_\_

1)  $y = (x - 2)^2 - 4$

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

3)  $y = (x + 4)^2 - 5$

4)  $y = (x + 1)^2 - 9$

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

6)  $y = (x - 4)^2 + 8$

7)  $y = 5(x - 1)^2 + 15$

8)  $y = 2(x + 3)^2 + 24$

**Simplify.**

9)  $-3\sqrt{5}(\sqrt{5} + 4)$

10)  $\frac{4\sqrt{2}}{\sqrt{3}}$

11)  $\frac{\sqrt{16}}{3\sqrt{12}}$

12)  $-3\sqrt[3]{16} + 2\sqrt[3]{54} - 3\sqrt[3]{2}$

13) Convert the following radical to a power.  $-3\sqrt[3]{2m^2}$

14) What is the equation of a line through:  $(-4, -3)$  and  $(1, 1)$