

Name: \_\_\_\_\_

## HW: Square Root Function Summary

Rewrite in radical form:

1)  $(3x)^{2/5} =$  \_\_\_\_\_

2)  $4x^{3/2} =$  \_\_\_\_\_

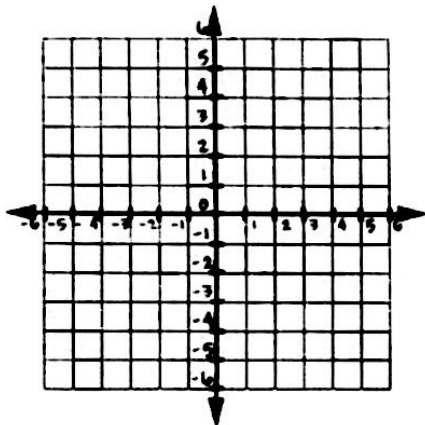
Rewrite in rational exponent form:

3)  $8\sqrt[3]{x^3} =$  \_\_\_\_\_

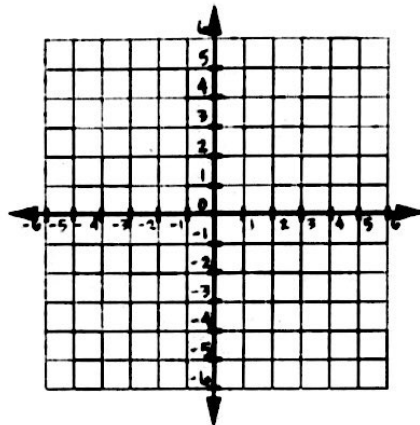
4)  $\sqrt{(5x)^7} =$  \_\_\_\_\_

Graph each square root function.

5)  $y = -\sqrt{x+5} + 1$



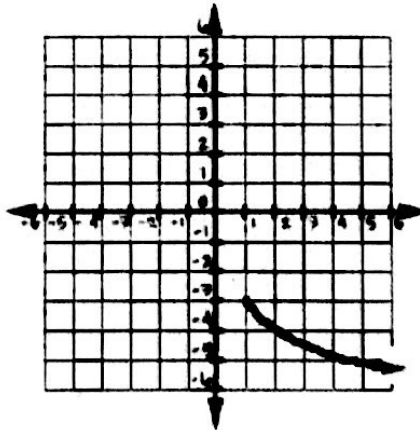
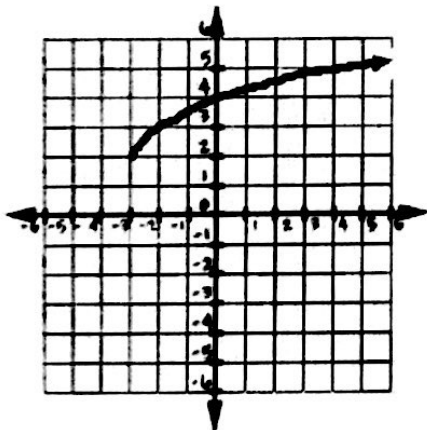
6)  $y = -\sqrt{x-4}$



Write an equation for the graph of each square root function.

7)  $y =$  \_\_\_\_\_

8)  $y =$  \_\_\_\_\_



Solve each equation. Check for extraneous solutions!

9)  $\sqrt{x+3} + 8 = 4$

10)  $\sqrt{2x+6} - x = 3$

11)  $\sqrt{3x+7} = 2$