

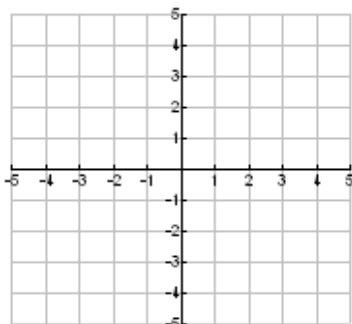
Name _____

Hour _____

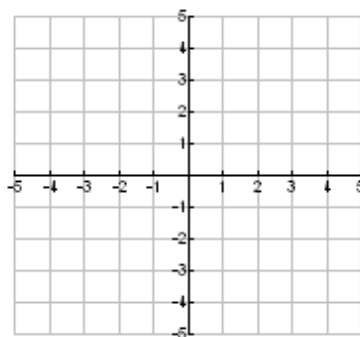
Ready, Set, Go! – Functions 4**Ready**

Draw a sketch of the following graph descriptions.

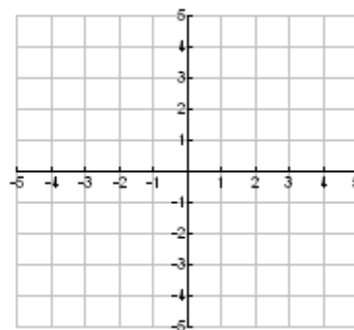
1. $y = x$ Linear



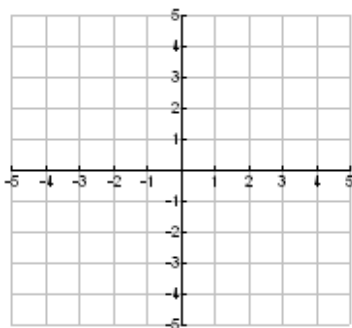
2. $f(x) = x^3$ Cubic



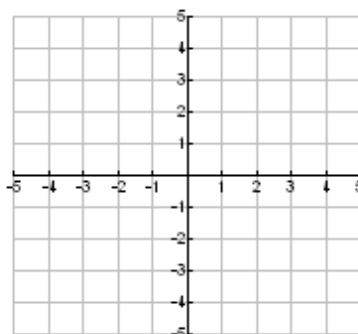
3. $y = |x|$ Absolute Value



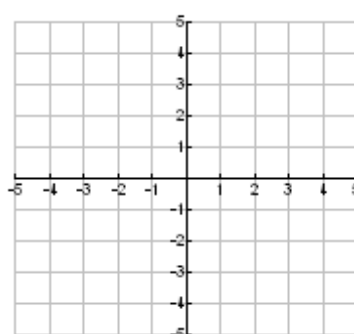
4. $f(x) = \sqrt{x}$ Root



5. $f(x) = x^2$ Quadratic/Parabola



6. $y = a^x$ Exponential

**Set**

State which basic function shape corresponds to the following equation.

7. $y = 3\sqrt[3]{x} - 3$

8. $f(x) = -5 + x$

9. $y = -\sqrt{x} + 4$

10. $f(x) = 7x + 5$

11. $y = -5|x + 1| - 4$

12. $g(x) = 4^{x-3}$

13. $f(x) = 3(x - 1)^3$

14. $y = 3^{x-2}$

15. $h(x) = x^2 + 4$

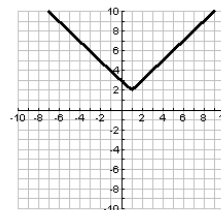
Go

Match the name with the equation and the graph by connecting them with lines

Name**Equation****Graph**

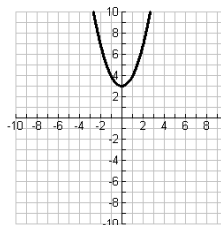
16. Quadratic

$$y = \sqrt{x} + 4$$



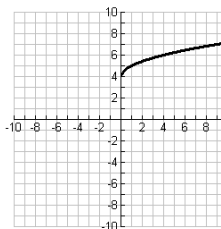
17. Linear

$$y = x^2 + 3$$



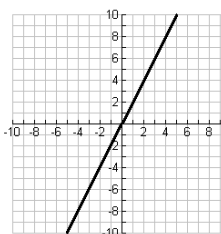
18. Square Root

$$f(x) = 2x$$



19. Absolute Value

$$f(x) = |x - 1| + 2$$



Circle the function that increases the fastest as the x-values get really large:

$$f(x) = 2^x$$

$$g(x) = 200x^2$$

Circle the function that increases the fastest as the x-values get really large:

$$h(x) = 3x^3$$

$$k(x) = 3^x$$

