Graphing   Name_____ ID: 1
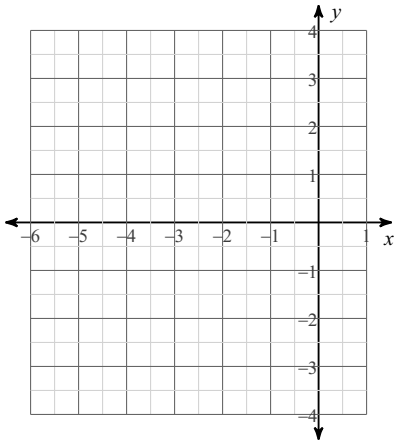Comparing Functions   Date_____ Period____

Sketch the graph of each function.

1) $y = x^2 + 8x + 14$

2) What type of function is this?
    _____

    Domain: _____

    Range:_____

    Asymptote: _____
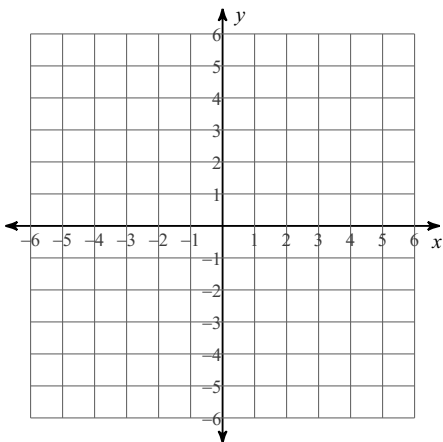   Rate if Change from x = -2 to x = 0

    Y-Intercept: _____

    Increasing:_____

    Decreasing:_____

Sketch the graph of each line.

3) $y = -\dfrac{2}{3}x + 3$

4) What type of function is this?
    _____

    Domain: _____

    Range:_____

    Asymptote: _____
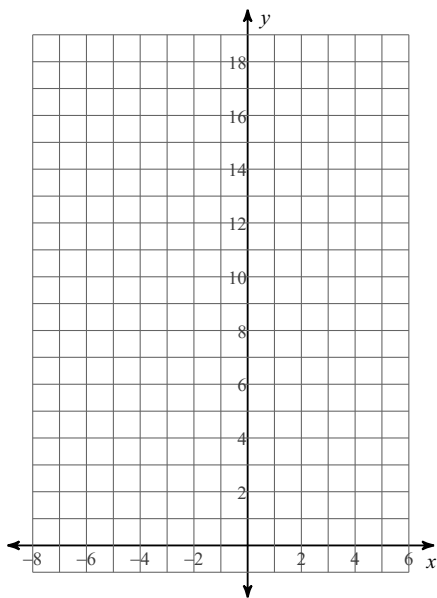   Rate if Change from x = 2 to x = 5

    Y-Intercept: _____

    Increasing:_____

    Decreasing:_____

Sketch the graph of each function.

5) $y = 5 \cdot 2^{x+1} - 1$

6) What type of function is this?
_____

Domain: _____

Range:_____

Asymptote: _____
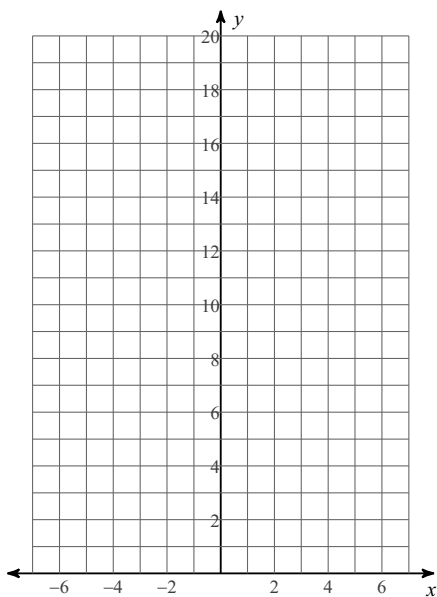Rate if Change from x = -2 to x = 2

Y-Intercept: _____

Increasing:_____

Decreasing:_____

Sketch the graph of each function.

7) $y = 3 \cdot \left(\dfrac{1}{2}\right)^{x}$

8) What type of function is this?
_____

Domain: _____

Range:_____

Asymptote: _____
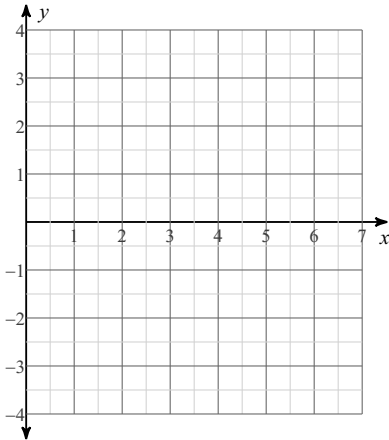Rate if Change from x = -2 to x = 2

Y-Intercept: _____

Increasing:_____

Decreasing:_____

Sketch the graph of each function.

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

10) What type of function is this?

_____

Domain: _____

Range:_____
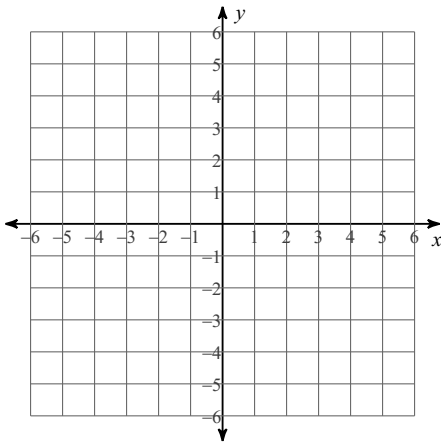
Asymptote: _____
Rate if Change from x = 2 to x = 4

Y-Intercept: _____

Increasing:_____

Decreasing:_____

Sketch the graph of each line.

11) $7x + 5y = 15$

12) What type of function is this?

_____

Domain: _____

Range:_____

Asymptote: _____
Rate if Change from x = 2 to x = 5

Y-Intercept: _____

Increasing:_____

Decreasing:_____