

Day 7 - Characteristics of Functions

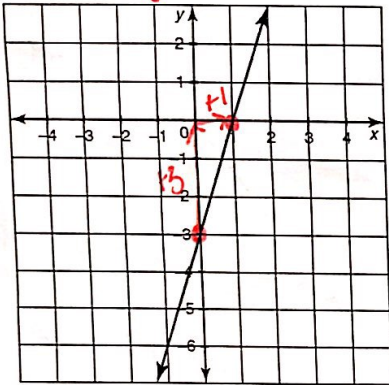
Name: Key

Date: _____ Block: _____

Practice Assignment

Determine the equation for each graph. Then identify all of the characteristics listed for the following graphs.

1. Equation: $y = 3x - 3$

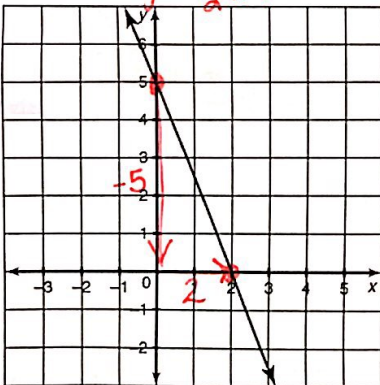


Domain: all real #'s
 X-Intercept: (1, 0)
 Int. of Increase: all real #'s
 Maximum: none

Range: all real #'s
 Y-Intercept: (0, -3)
 Int. of Decrease: none
 Minimum: none

Zeros: x = 1
 Constant: none

2. Equation: $y = -\frac{5}{2}x + 5$

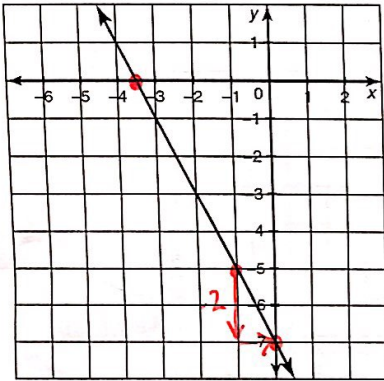


Domain: all real #'s
 X-Intercept: (2, 0)
 Int. of Increase: none
 Maximum: none

Range: all real #'s
 Y-Intercept: (0, 5)
 Int. of Decrease: all real #'s
 Minimum: none

Zeros: x = 2
 Constant: none

3. Equation: $y = -2x - 7$

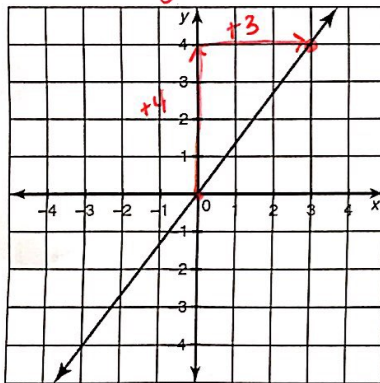


Domain: all real #'s
 X-Intercept: $(-3.5, 0)$
 Int. of Increase: none
 Maximum: none

Range: all real #'s
 Y-Intercept: $(0, -7)$
 Int. of Decrease: all real #'s
 Minimum: none

Zeros: $x = -3.5$
 Constant: none

4. Equation: $y = 4/3x$



Domain: all real #'s
 X-Intercept: $(0, 0)$
 Int. of Increase: all real #'s
 Maximum: none

Range: all real #'s
 Y-Intercept: $(0, 0)$
 Int. of Decrease: none
 Minimum: none

Zeros: $x = 0$
 Constant: none