

## Semester 1 Exam Practice - 12-15-08 (Monday)

Date \_\_\_\_\_ Period \_\_\_\_\_

**Simplify each expression.**

1)  $(8b + 9) \cdot 4$

2)  $-9x(3x - 8)$

3)  $6 + 5(3k - 2)$

4)  $-9(8 - m) - 9m$

**Solve each equation (one step undos).**

5)  $\frac{b}{8} = -2$

6)  $-4x = 40$

7)  $\frac{x}{2} = 0$

8)  $b + 5 = -3$

**Solve each proportion.**

9)  $\frac{4}{2} = \frac{8}{p+1}$

10)  $\frac{n+8}{7} = \frac{4}{10}$

**Solve each equation (two step undos).**

11)  $-7(8 + k) = -182$

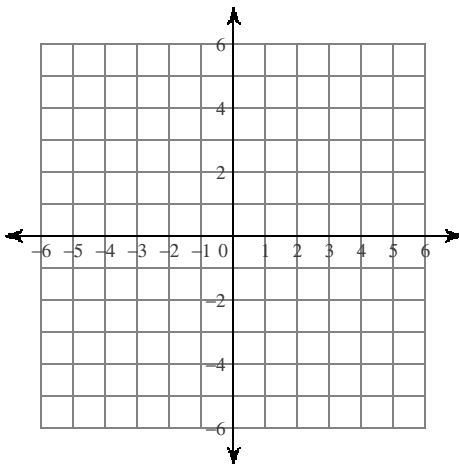
12)  $5(9 + x) = 0$

13)  $\frac{k+10}{9} = 2$

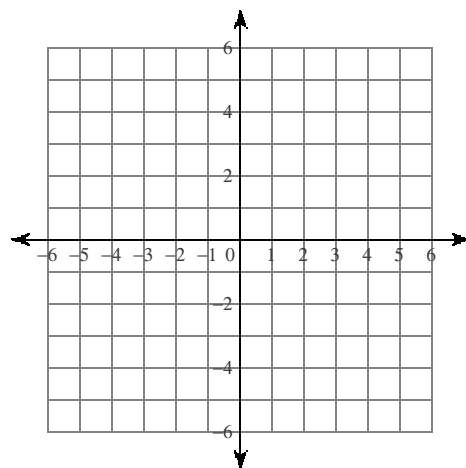
14)  $\frac{x-10}{32} = -1$

**Sketch the graph of each line (use T-table, assume domain is all real numbers).**

15)  $y = x + 1$



16)  $y = -\frac{7}{5}x - 5$

**Find each percent change. State if it is an increase or a decrease.**

17) From 71 to 36

18) From 84 to 47

# Answers to Semester 1 Exam Practice - 12-15-08 (Monday) (ID: 1)

1)  $32b + 36$

5)  $\{-16\}$

9)  $\{3\}$

13)  $\{8\}$

2)  $-27x^2 + 72x$

6)  $\{-10\}$

10)  $\left\{\frac{26}{5}\right\}$

14)  $\{-22\}$

3)  $-4 + 15k$

7)  $\{0\}$

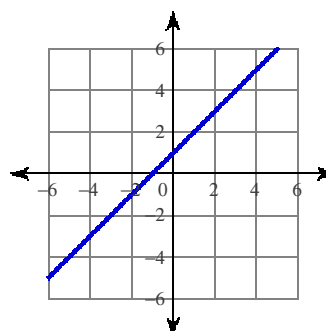
11)  $\{18\}$

15)

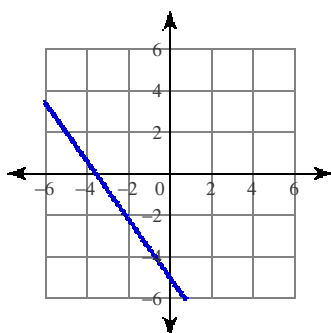
4)  $-72$

8)  $\{-8\}$

12)  $\{-9\}$



16)



17) 49% decrease

18) 44% decrease