

Semester 1 Exam Practice -

Part 2

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

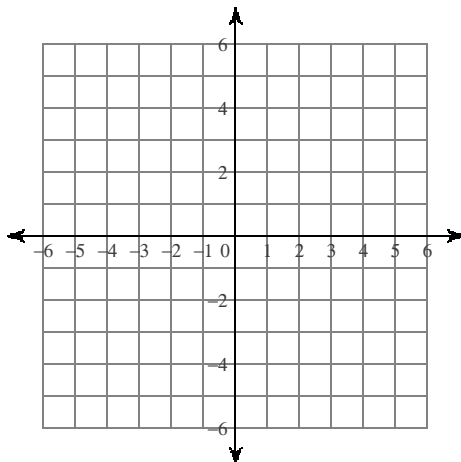
12) $5(9 + x) = 0$

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

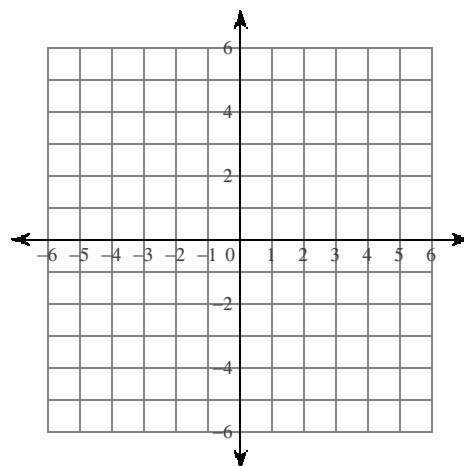
14) $\frac{x-10}{32} = -1$

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) $\{0\}$

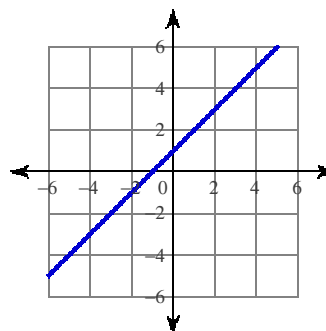
11) $\{18\}$

15)

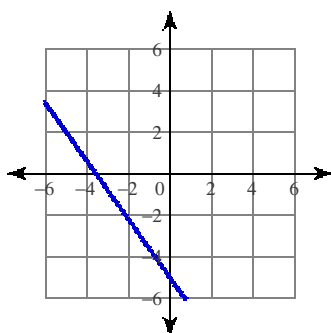
4) -72

8) $\{-8\}$

12) $\{-9\}$



16)



17) 49% decrease

18) 44% decrease