

Semester 1 Exam Practice -

Part 1

Simplify each expression (note: these are NOT equations, you only combine like terms)

1) $4(2 + n) + 5n$

2) $-5(x - 6) - 8$

3) $-7 - 2(n - 5)$

4) $2(x - 4) + 1$

Solve each equation (note: these are 1-undo equations).

5) $10v = -10$

6) $-2n = 18$

7) $x - (-2) = -9$

8) $-15 = 11 + k$

Solve each proportion (use the property that the cross-products are equal).

9) $\frac{5}{4} = -\frac{3}{r-2}$

10) $\frac{x+7}{11} = \frac{3}{10}$

Solve each equation (note: these are 2- undo equations).

11) $\frac{k}{2} - 8 = -6$

12) $11m - 6 = -182$

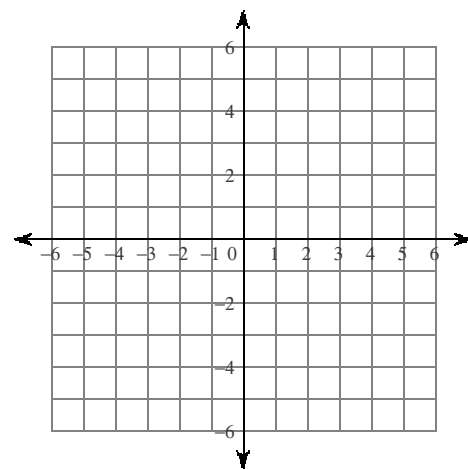
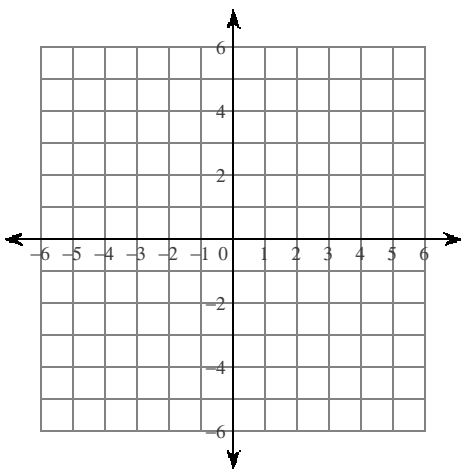
13) $-4(p + 4) = -104$

14) $-4x - 7 = 61$

Sketch the graph of each line (use a t-table, solve for y if not done already).

15) $y = -\frac{3}{5}x - 2$

16) $y = \frac{1}{4}x - 5$



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

17) From 17 to 10

18) From 17 to 6

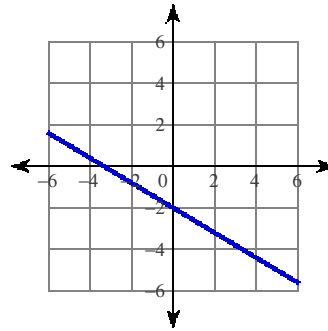
Answers to Semester 1 Exam Practice - 12-12-08 (ID: 1)

- 1) $8 + 9n$
- 5) $\{-1\}$
- 9) $\{-0.4\}$
- 13) $\{22\}$

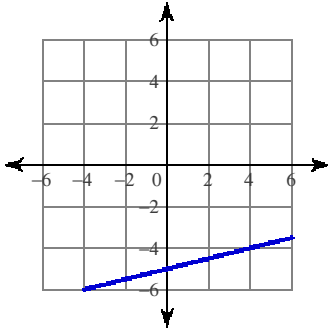
- 2) $-5x + 22$
- 6) $\{-9\}$
- 10) $\{-3.7\}$
- 14) $\{-17\}$

- 3) $3 - 2n$
- 7) $\{-11\}$
- 11) $\{4\}$
- 15)

- 4) $2x - 7$
- 8) $\{-26\}$
- 12) $\{-16\}$



16)



17) 41% decrease

18) 65% decrease