

Semester 1 Exam Practice - 12-12-08

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).

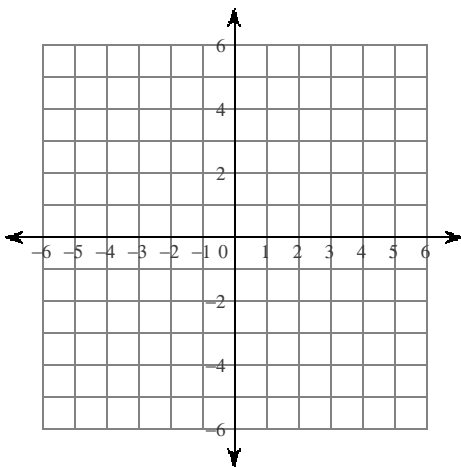
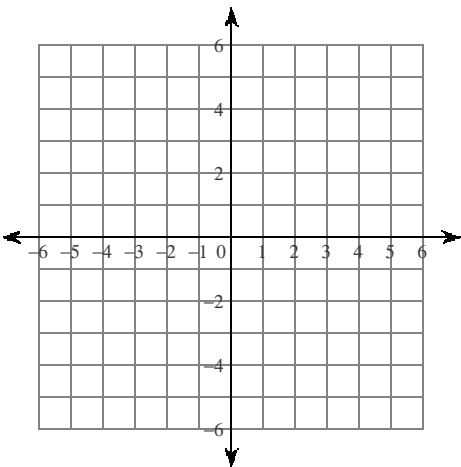
- 9) $\frac{5}{4} = -\frac{3}{r - 2}$
- 10) $\frac{x + 7}{11} = \frac{3}{10}$

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) $\{-11\}$

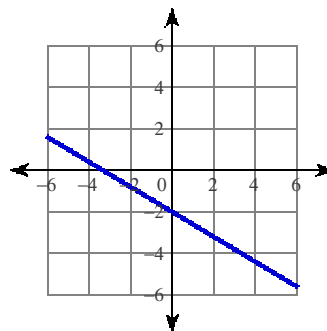
11) $\{4\}$

15)

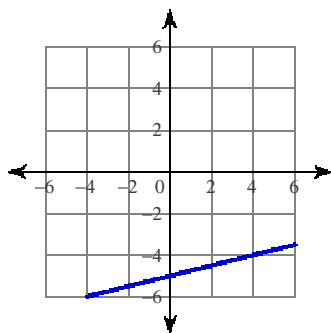
4) $2x - 7$

8) $\{-26\}$

12) $\{-16\}$



16)



17) 41% decrease

18) 65% decrease