

Spiral #5

Date _____ Period _____

Simplify each expression.

1) $8(10 - 10n) - 5$

2) $-8(7k - 10) + 8k$

Solve each proportion.

3) $\frac{16}{v} = \frac{5}{18}$

4) $\frac{2}{a} = \frac{17}{12}$

Simplify. Your answer should contain only positive exponents.

5) $\frac{2x \cdot 3x}{(4x)^4}$

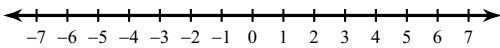
6) $\frac{(m^4)^4}{m^4 \cdot 3m}$

7) $\frac{(x^3 \cdot 2x^2)^2}{3x^4}$

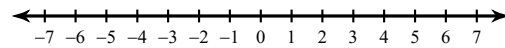
8) $\frac{(3a^4)^2}{(a^2)^3 \cdot (3a^3)^3}$

Draw a graph for each inequality.

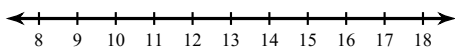
9) $n \geq 5$



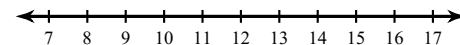
10) $x > 6$

**Solve each inequality and graph its solution.**

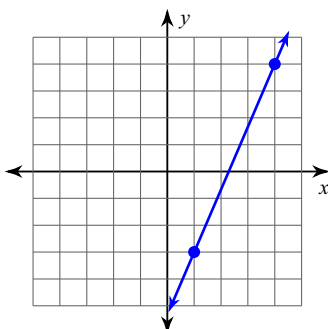
11) $\frac{n-9}{2} > 2$



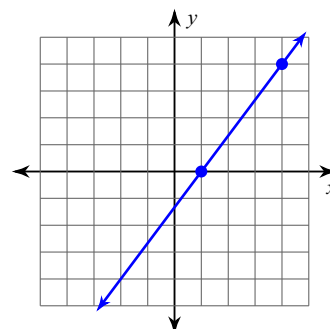
12) $-4(-9 + k) \geq -4$

**Find the slope of each line.**

13)



14)



Spiral #5

Date _____ Period _____

Simplify each expression.

1) $8(10 - 10n) - 5$
 $75 - 80n$

2) $-8(7k - 10) + 8k$
 $-48k + 80$

Solve each proportion.

3) $\frac{16}{v} = \frac{5}{18}$
 $\{57.6\}$

4) $\frac{2}{a} = \frac{17}{12}$
 $\{1.41\}$

Simplify. Your answer should contain only positive exponents.

5) $\frac{2x \cdot 3x}{(4x)^4} \cdot \frac{3}{128x^2}$

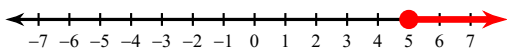
6) $\frac{(m^4)^4}{m^4 \cdot 3m} \cdot \frac{m^{11}}{3}$

7) $\frac{(x^3 \cdot 2x^2)^2}{3x^4} \cdot \frac{4x^6}{3}$

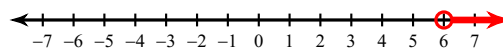
8) $\frac{(3a^4)^2}{(a^2)^3 \cdot (3a^3)^3} \cdot \frac{1}{3a^7}$

Draw a graph for each inequality.

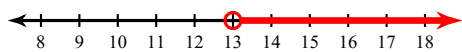
9) $n \geq 5$



10) $x > 6$

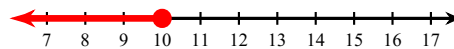
**Solve each inequality and graph its solution.**

11) $\frac{n-9}{2} > 2$



$n > 13$

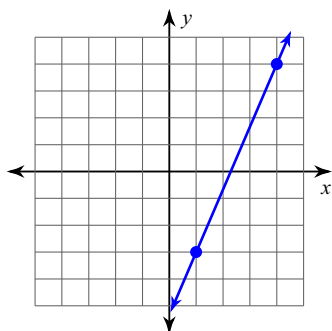
12) $-4(-9 + k) \geq -4$



$k \leq 10$

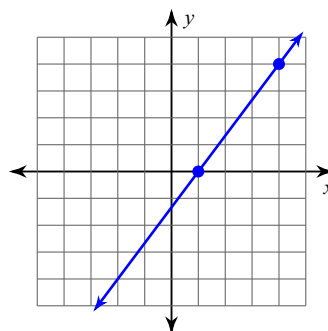
Find the slope of each line.

13)



$\frac{7}{3}$

14)



$\frac{4}{3}$