

Problem Set #6

Date _____ Period _____

Find the distance between each pair of points.

1) $(-6, -7), (2, 6)$

2) $(-3, -2), (-1, 5)$

Simplify each expression.

3) $10x + 5 + x + 4$

4) $n - 7 - 3$

Solve each equation.

5) $7(2 + 3r) + 6 = 167$

6) $2(7m + 1) = 100$

Solve each proportion.

7) $\frac{4}{5} = \frac{n+6}{n+7}$

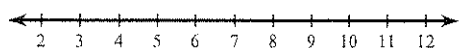
8) $-\frac{10}{x+9} = \frac{11}{x+11}$

Simplify. Your answer should contain only positive exponents.

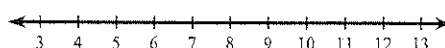
9) $2x^{-3} \cdot 3x^4$

Solve each inequality and graph its solution.

10) $90 > 5(4p - 2)$



11) $216 > -6(-6x + 6)$

**Draw a graph for each inequality.**

12) $b < -6$

