

Semester 1 - Final Review Part 1

Solve each equation.

1) $-7 - p = -3$

2) $10 - k = 6$

3) $-26.961 = x - 17.9$

4) $-24.4 = x - 10.6$

5) $8x = -136$

6) $\frac{n}{16} = -\frac{1}{4}$

7) $-7 = -5 + \frac{x}{7}$

8) $26 = 10 - 2v$

9) $-5 + 8x = 123$

10) $\frac{n+6}{-8} = 1$

11) $14 - 6n = -2(7 + 5n)$

12) $7(n - 1) - 6 = -13 - 8n$

13) $-39 + 7v = 3(6v - 2)$

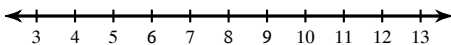
14) $2x + 18 = 2(4x - 6)$

15) $4(x + 8) = 36 + 4x$

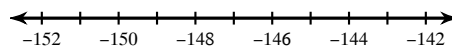
16) $5(1 + 2n) = -19 + 6n$

Solve each inequality and graph its solution.

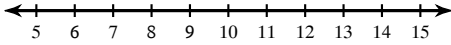
17) $6 \leq n - 4$



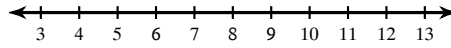
18) $\frac{p}{16} > -9$



19) $\frac{b}{4} - 3 \leq 0$

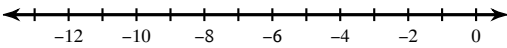


20) $-3m + 4 < -26$

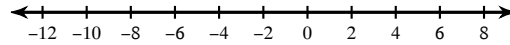


Solve each compound inequality and graph its solution.

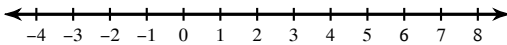
21) $3m \leq -9$ and $m + 5 > -5$



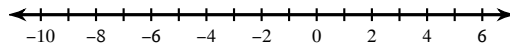
22) $\frac{x}{4} < -2$ or $\frac{x}{4} > 1$



23) $\frac{n}{4} \leq 0$ or $-4 + n > -3$

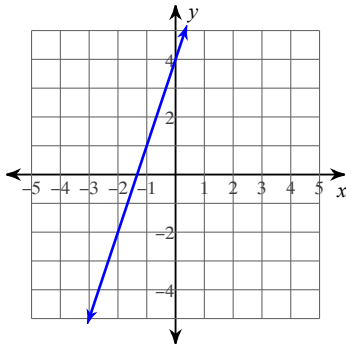


24) $15 > 10 + k > 3$

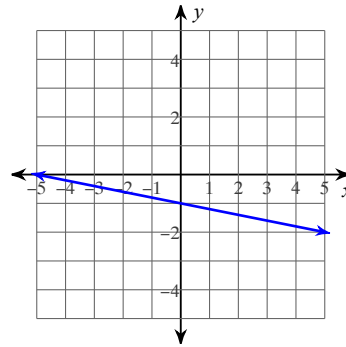


Write the slope-intercept form of the equation of each line.

25)



26)



Write the slope-intercept form of the equation of the line through the given point with the given slope.

27) through: $(5, 5)$, slope = $\frac{8}{5}$

28) through: $(-3, -1)$, slope = $\frac{1}{3}$

Write the point-slope form of the equation of the line through the given points.

29) through: $(5, -1)$ and $(0, 2)$

30) through: $(0, 5)$ and $(1, -3)$