

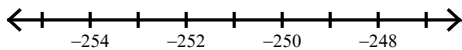
Assignment #1

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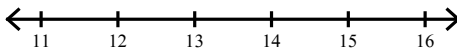
Date _____ Period _____

Solve each inequality and graph its solution.

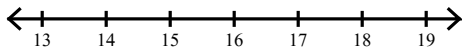
1) $\frac{x}{14} > -18$



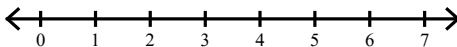
2) $4x < 52$



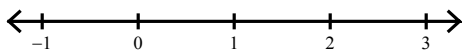
3) $n + 7 < 24$



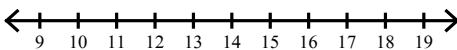
4) $k + 19 \geq 24$



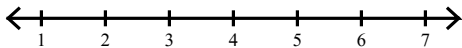
5) $\frac{v-9}{4} \leq -2$



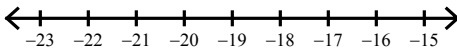
6) $-2k + 5 \leq -23$



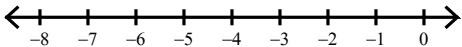
7) $-5a - 3 \geq -28$



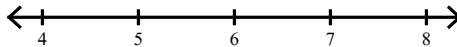
8) $6x - 10 < -130$



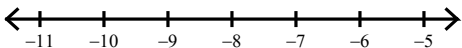
9) $-6(1 - 3x) < -96$



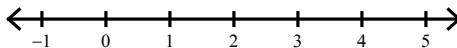
10) $-2(8r - 5) > -86$



11) $-3(3x - 1) + 7 > 82$



12) $-8 + 4(2 + 8b) > 96$



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

13) through: $(5, -5)$, slope $= -1$

14) through: $(1, 2)$, slope $= 1$

Solve each system by substitution.

15) $-4x - 7y = -14$
 $y = -6x + 2$

16) $y = 2x - 16$
 $7x + 3y = 4$

A) $(0, 8)$

B) $(0, 2)$

C) $(0, -2)$

D) Infinite number of solutions

Solve each system by elimination.

17) $3x - 6y = 18$
 $-2x - 3y = -5$

18) $7x - 8y = -6$
 $8x - 4y = -12$

A) $(-2, -5)$

B) $(-5, -2)$

C) $(-2, -10)$

D) $(-2, -1)$

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

19) through: $(3, -4)$, perp. to $y = \frac{3}{2}x - 4$

20) through: $(1, -5)$, parallel to $y = -7x - 4$