SRHS Math 1 - Assignment #Review 5 Name_____

**Solve the equation.**

1) $\frac{r}{2} = 7$ $\{14\}$

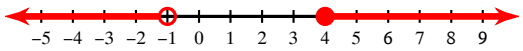
2) $8 + v - 5v = 12$ $\{-1\}$

3) $8n + 4(n - 8) = -128$ $\{-8\}$

4) $|b + 3| - 4 = 2$ $\{3, -9\}$

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

5) $8n + 2 < -6$ or $-6 + 2n \geq 2$




$n < -1$ or $n \geq 4$

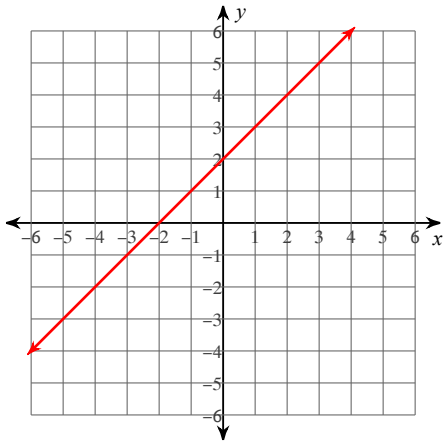
**Solve as directed.**

6) Evaluate $f(x) = 11x + 3$ when $x = 8$ 91

7) For $f(x) = 7x - 2$, find the value of x for which $f(x) = 54$ 8

**Sketch the graph of the linear function using the given intercepts.**

8) $x$-intercept = −2, $y$-intercept = 2

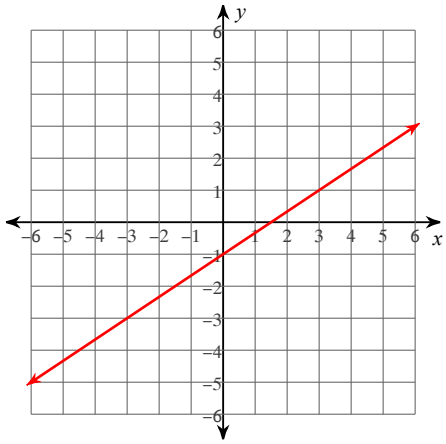



**Find the x and y intercepts of the given function.**

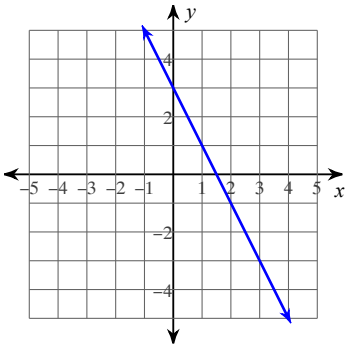
9) $5x - 6y = 20$ x - int: (4, 0) and y-int: $(0, -\frac{10}{3})$

**Sketch the graph of the line.**

10) $y = \frac{2}{3}x - 1$



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

11)  $y = -2x + 3$

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

12) through: $(5, 1)$, slope $= -\frac{1}{8}$ $y - 1 = -\frac{1}{8}(x - 5)$

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

13) through: $(4, 3)$ and $(-2, -5)$ $y - 3 = \frac{4}{3}(x - 4)$ or $y + 5 = \frac{4}{3}(x + 2)$

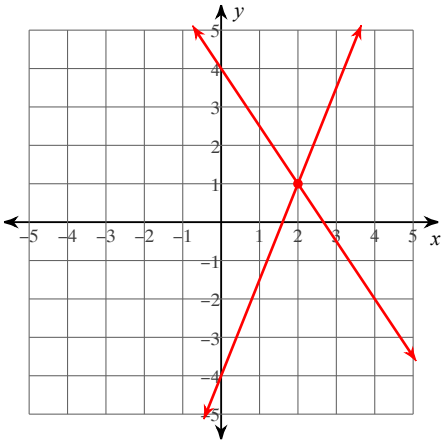
**Write an equation of the line...**

14) through: $(-3, 5)$, parallel to $y = -\frac{1}{3}x$ $y = -\frac{1}{3}x + 4$ or $y - 5 = -\frac{1}{3}(x + 3)$

**Solve each system by graphing.**

15) $y = \frac{5}{2}x - 4$

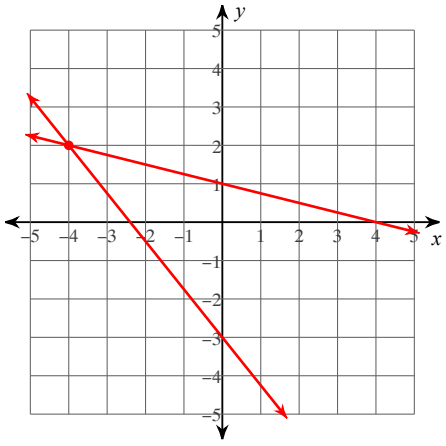
$y = -\frac{3}{2}x + 4$



$(2, 1)$

16) $y = -\frac{1}{4}x + 1$

$y = -\frac{5}{4}x - 3$



$(-4, 2)$

**Solve each system by substitution.**

17) $y = 2x - 8$ $(6, 4)$

$-6x + 6y = -12$

18) $7x - 3y = 17$ $(5, 6)$

$x + y = 11$

**Solve each system by elimination.**

19) $-8x + 4y = -16$ $(1, -2)$

$8x + 5y = -2$

20) $-7x + 4y = -15$ $(1, -2)$

$4x - 12y = 28$