

Unit 1 Review

1. Solve: $7(3x-1) = -2(x-4)$
2. Solve: $-4(8x-3) - 5 = 7(2x-1)$
3. Solve: $\frac{3}{4}x - 1 = 2x + 5$
4. Solve: $\frac{1}{9}x - 1 = \frac{1}{2}x - 2 + x$
5. Solve: $\frac{x+6}{4} - 2x = -3$
6. Solve: $\frac{-2}{5}x + \frac{1}{3} = \frac{3}{2}$
7. Solve for the following for a: $ab - c - d = efg$
8. Solve: $5x - 2 > 83$
9. Solve: $4(x-2) \leq 5(3x-1)$
10. Solve: $\frac{3}{4}x - x > 8x + \frac{1}{3}$
11. Graph:

$y = \frac{-3}{2}x + 4$	$6x - 12y = 3$
$4x - y = 2$	$\frac{1}{3}x - \frac{1}{4}y = \frac{1}{6}$

12. Find the intercepts of:

$24x - 6y = 8$	$\frac{1}{5}x - 2y = 3$
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13. Find the slope of the line that passes through the points $(-5, -2)$ and $(8, -9)$
14. Find the equation of the line that has slope of 5 and passes through the point $(3, 7)$
15. Find the equation of the line that passes through the points:

$(1, 3)$ and $(4, 9)$	$(-3, -5)$ and $(2, -8)$
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16. Given a point and a line that is parallel to, find the equation of the line:

Find the equation of the line that is parallel to $4x - 3y = 6$ and passes through the point: $(5, 2)$	Find the equation of the line that is parallel to $y = 7x - 2$ and passes through the point: $(3, -1)$
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17. Given a point and a line that is perpendicular to, find the equation of the line:

Find the equation of the line that is perpendicular to $y = \frac{-1}{6}x - 3$ and passes through the point $(3, 4)$	Find the equation of the line that is perpendicular to $5x - 4y = 8$ and passes through the point $(-1, -2)$
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