

Intermediate Algebra Chapter 1 Test Review

1. Solve a linear equation:

1.a. $5(x - 2) + 3 = -7(5x + 3)$	1.b. $\frac{5}{3}x - 7 = 2x - \frac{1}{2}$
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2. Solve a percent problem:

2.a. 100 is 32% of what?	2.b. 53 is what percent of 75?
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3. Solve a "formula" problem:

3.a. Solve for y: $\frac{1}{8}x - \frac{2}{5}y = -1$	3.b. Solve for y: $5x - 7y = -2$
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4. Solve a linear inequality:

4.a. $-5(x - 3) < 4(x + 2) - 7$	4.b. $\frac{2}{12}x > \frac{1}{20}x - 1$
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5. Graph a line:

5.a. Graph: $y = 4x - 3$	5.b. Graph: $5x - 2y = 4$
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6. Find the x- and y-intercepts:

6.a. Find the intercepts of $\frac{5}{6}x - \frac{2}{9}y = -3$	6.b. Find the intercepts of $5x - 3y = 2$
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7. Find the slope between (-2, -1) and (-6, 3)

8. Find the equation of the line between the points (-2, 4) and (1, -1)

9. Find an equation of the line given a point and line that is either perpendicular to or parallel to:

9.a. Find the equation of the line with the following conditions: Parallel to $7x - 2y = 3$ and passing through the point (-5, -2)	9.b. Find the equation of the line with the following conditions: Perpendicular to $3x + 2y = 8$ and passing through the point (-4, -1)
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10. Graph a linear inequality in two variables:

10.a. Graph: $y < 5x + 1$	10.b. Graph: $3x + 2y \geq 4$
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