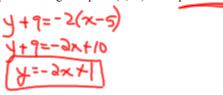
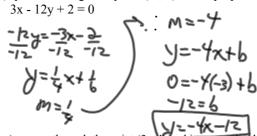
Coordinate Geometry practice...

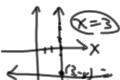
- #1. Show that the triangle whose vertices have the coordinates (3, 3), (8, 17) & (11, 5) is a right triangle.
 - M= 17-3 M8 0-3 M8 - 17-5 - 17 - 12 -3
- #2. Determine the equation of the line...
- a) passes through the point (5, -9) and is parallel to the line 2x + y = 1



b) passes through the point (-3, 0) and is perpendicular to the line



c) passes through the point (3, -4) and is perpendicular to the x-axis



- #3. For each pair of equations, find a value for k so that the...
- a) graph of 4x + ky 2 = 0 is parallel to the graph of 3x 2y = 5

b) graph of 4x + ky = 6 is perpendicular to the graph of 5x - 2y + 5 = 0

6.6 General Form of the Equation for a Linear Relation

(Standard Form)

General Form of the Equation of a Linear Relation

Ax + By + C = 0 is the general form of the equation of a line, where A is a whole number, and B and C are integers.

Example 1 Rewriting an Equation in General Form

$$3y = -2x + 12$$
 $5y - 5 = 3(x + 2)$
 $2x + 3y + 12 = 0$ $5y - 5 = 3x + 6$
 $0 = 3x - 5y + 11$
 $1 = 0$
 $3x - 5y + 11 = 0$

6.6 General Form of the Equation for a Linear Relation



CHECK YOUR UNDERSTANDING

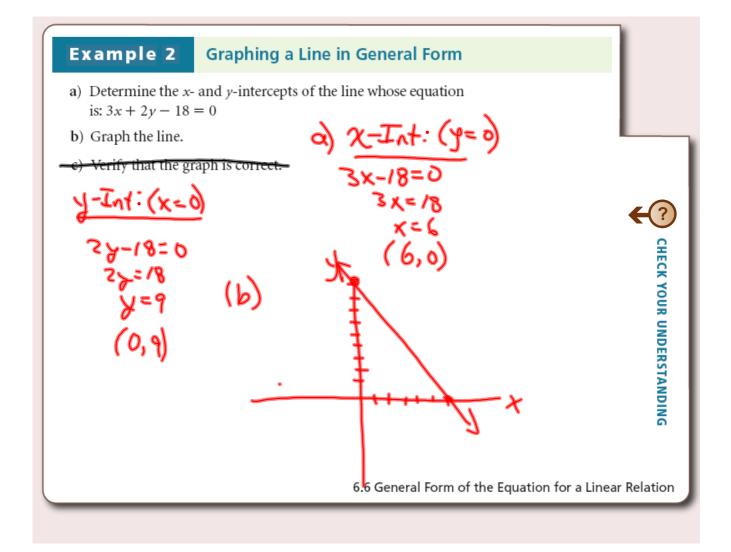
1. Write each equation in general form.

a)
$$y = -\frac{1}{4}x + 3$$

b)
$$y + 2 = 7(x - 4)$$

x+4y-3=0

b) 244=3x-12

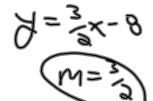


Example 3

Determining the Slope of a Line Given Its Equation in General Form

Determine the slope of the line with this equation:

$$3x - 2y - 16 = 0$$





6.6 General Form of the Equation for a Linear Relation

Practice Problems...

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#4, 5, 6, 7, 8, 12, 13, 15, 18, 22, 23, 26,