Section 3.3: Three Forms for the Equation of a Line Wednesday, October 16, 2013 10:03 AM

1) slope-intercept form:

$$y = mx + b$$
 where $m = slope$
 $b = y - intercept$
example: $y = -\frac{3}{4} \times + 2$

$$(\mathbf{a})$$

(2) standard form:

Ax+By=C

where A, B, and C are real numbers and A and B are not both zero

(3) point - slope form $y - y_{1} - m(x - x_{1})$ -> used when you know a point on the I've and the slope and you want to know the equistion of the line

slope-intercept form:

$$3x - 5y = 7$$

$$-5y = -3x + 7$$

$$y = \frac{3}{5} \times -\frac{7}{5}$$

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rough sketch:

(0,-7/5)

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