Support for College Algebra
Fall 2016
11:00am MWF
Quiz #2

SHOW ALL WORK ON QUIZ!

1. Write the following equation in *Standard* form: $y + 5 = \frac{3}{5}(x - 2)$

① $\quad y + 5 = \frac{3}{5}(x - 2)$

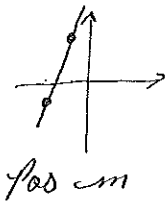$\quad 5\left(y + 5 = \frac{3}{5}x - \frac{6}{5} \right)$

② $\quad 5y + 25 = 3x - 6$

$\quad -1(-3x + 5y = -31)$

③ $\boxed{3x - 5y = 31}$

2. Write the equation of a line in *Standard* form given the points $(-2, 8)$ and $(-5, -3)$.

pos m

① $\quad m = \dfrac{(-3) - (8)}{(-5) - (-2)} = \dfrac{-11}{-3} = \dfrac{11}{3}$

② $\quad y - y_1 = m(x - x_1)$

$\quad y - (8) = \frac{11}{3}(x - (-2))$

$\quad y - 8 = \frac{11}{3}(x + 2)$

$\quad 3\left(y - 8 = \frac{11}{3}x + \frac{22}{3} \right)$

$\quad 3y - 24 = 11x + 22$

$\quad -1(-11x + 3y = 46)$

$\quad \boxed{11x - 3y = -46}$

③ ck $(-5, -3)$

$11(-5) - 3(-3) = -46$

$-55 + 9 = -46$

$-46 = -46 \checkmark$