October 26, 2015

* Exam #2 – Friday
60% New
40% Prior

Oct 26-9:54 AM

(-3, 7) & Parallel to $5x - 3y = 8$

$m = \frac{5}{3}$

$\frac{-3y}{-3} = \frac{-5x}{-3} + \frac{8}{-3}$

$y = \frac{5}{3}x - \frac{8}{3}$

$y - y_1 = m(x - x_1)$

$y - 7 = \frac{5}{3}(x - (-3))$

$3\left(y - 7 = \frac{5}{3}(x + 3)\right)$

$3y - 21 = 5(x + 3)$

$3y - 21 = 5x + 15$

$-5x + 3y = 36$

Don't leave as a neg.!

$5x - 3y = -36$

Oct 26-10:04 AM

#20) (-2, 4) & Parallel to $y = -\frac{3}{2}x + 3$

$2\left(y - 4 = -\frac{3}{2}(x + 2)\right)$

$2y - 8 = -3(x + 2)$

$2y - 8 = -3x - 6$

$3x + 2y = 2$

Oct 26-10:23 AM

Perpendicular lines

$m_2 = -\frac{1}{m_1}$

$m_1 = -\frac{8}{5}$, $m_2 = \frac{5}{8}$

Oct 26-10:27 AM

#21) (2, 4) & Perp. to $y = -\frac{2}{7}x - 5$

$m = \frac{7}{2}$

$2\left(y - 4 = \frac{7}{2}(x - 2)\right)$

$2y - 8 = 7(x - 2)$

$2y - 8 = 7x - 14$

$-7x + 2y = -6$

$7x - 2y = 6$

Oct 26-10:30 AM

(-4, 5) & Perp. to $x = 3$

$y = 5$, $x = 3$

$x + 0y = 3$

$x + 0(1) = 3$

$x = 3$

x	y
(3	1)
(3	4)
3	-2

$\{(3, 1), (3, 4), (3, -2)\}$

$m = \frac{1 - 4}{3 - 3}$

$= -\frac{3}{0}$ und!

Oct 26-10:36 AM