May 27, 2011

(p.77) Green workbook

1. $m = 4$
2. $m = \frac{2}{7}$
3. $m = -9$
4. $m = -\frac{1}{2}$
5. $m = -3$
6. $m = 0$
7. $m = 1$
8. $m = \frac{9}{5}$
9. $m = \frac{1}{3}$
10. $m = \frac{6}{7}$
11. no answer
12. $m = -\frac{3}{5}$
13. $y = -\frac{1}{3}x + 5\frac{1}{3}$
14. $y = \frac{1}{5}x + 6$

(15) $y = -6x - 10$

(16) $y = 4x - 3$

(17) $y = -\frac{1}{4}x - 3$

(18) $y = \frac{3}{4}x - 3$

(22) $y = 2x - 2$

(23) $y = -4x + 7$

(24) $y = x - 5$

(25) $y = \frac{3}{2}x - 6$

(26) $y = -\frac{3}{4}x - 10$

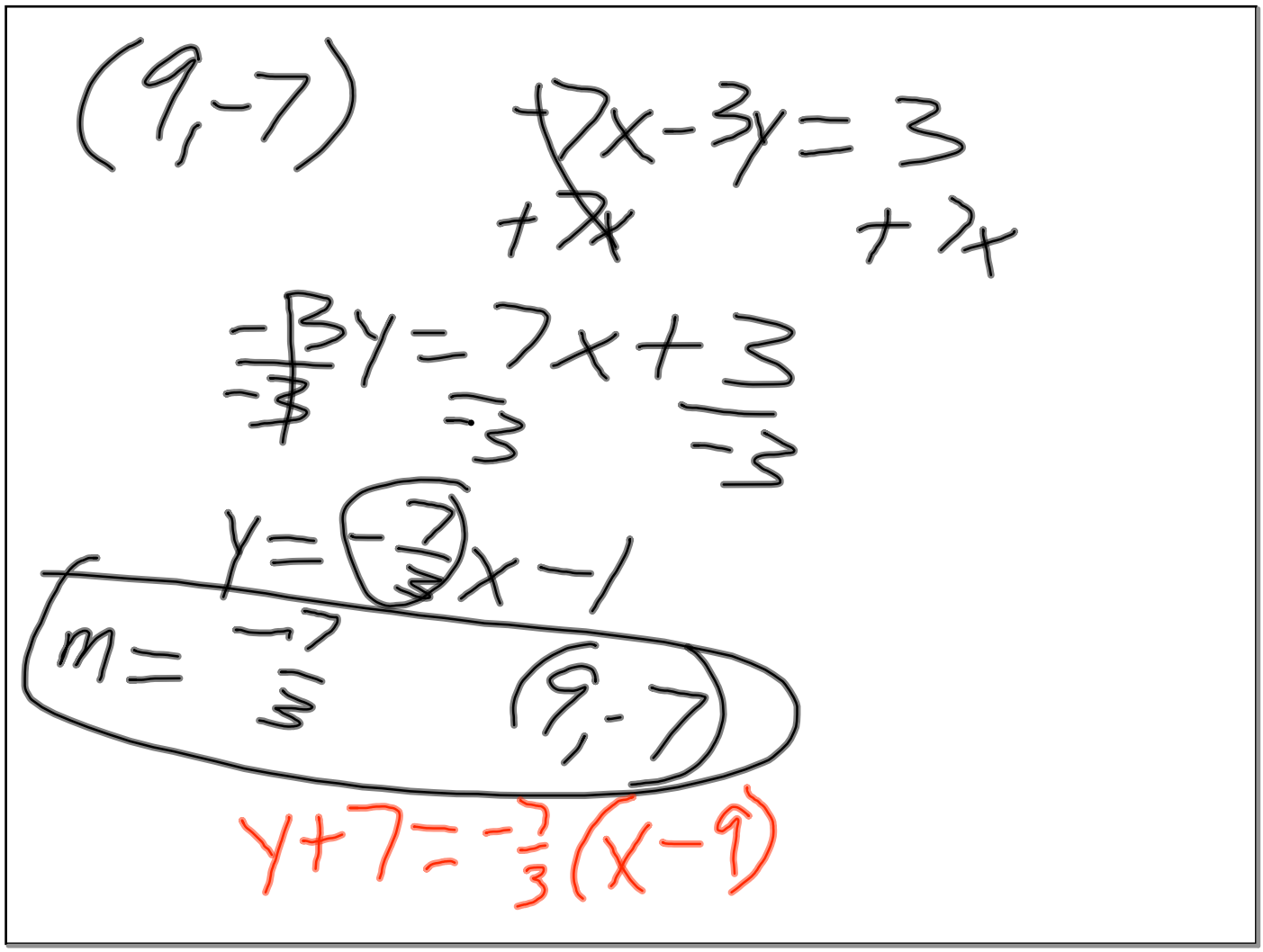
(27) $y = -\frac{7}{3}x + 14$

(31) parallel

(32) perpendicular

(33) neither

(34) neither


(9, -7)
7x - 3y = 3
+7x
+7x
-3y = 7x + 3
-3 -3 -3
y = (-7/3)x - 1
m = -7/3
(9, -7)
y + 7 = -7/3 (x - 9)

(31) $y = 3x - 8$ $\quad m = 3$

$3x - y = -1$

$-3x \qquad -3x$

$\frac{-y}{-1} = \frac{-3x}{-1} - \frac{1}{-1}$

$y = 3x + 1$

$m = 3$

$3x + 2y = -5$ $\quad y = -\frac{3}{2}x - \frac{5}{2}$

$y = \frac{2}{3}x + 6$ $\quad m = \frac{2}{3}$

$y = -\frac{5}{2}x + 11$ $\quad m = -\frac{5}{2}$

$-5x + 2y = 20$

$y = \frac{5}{2}x + 10$

$m = \frac{5}{2}$

$9x + 3y = 6$

$-9x \quad -9x$

$3x + 9y = 6$

$m = -\frac{9}{3}$

$y = -\frac{9}{3}x + 6$

$y = \frac{-3}{9}x + \frac{6}{9}$

$m = \frac{-9}{3}$

parallel

perpendicular