STRAIGHT LINE PRACTICE ANSWERS

Find the slope and the y-intercept for the following:

		slope	y-int			slope	y-int
1	y = 2x + 3	2	3	11	$\frac{1}{2}x + 8 = y$	$^1/_2$	8
2	y = 3x − 8	3	-8	12	-5x − 10 = 5y	-1	-2
3	y = 4 x + 7	4	7	13	2.8y − 3.5 x = -9.8	$1^1/_4$	-3.5
4	$y = \frac{1}{2}x - 2$	$^1/_2$	-2	14	6y − 2x = 18	$^1/_3$	3
5	$y = \frac{2}{3}x + 1$	$^2/_3$	1	15	$y = \frac{3}{4}x + 12$	$^3/_4$	12
6	x + 3 = y	1	3	16	$\frac{1}{3}y = 2x - 1$	6	-3
7	x − 7 = y	1	-7	17	$3x - \frac{1}{4}y = 12$	12	-48
8	x + 3y = 6	$-^1/_3$	2	18	$\frac{3}{4} + 2y = 8x$	4	$-^3/_8$ or 0.375
9	5y + 10 = x	$^1/_5$	-2	19	2y = 10 − 6x	-3	5
10	y + 2x = 16	-2	16	20	6.2x -2y = 7.8	3.1 or $^{31}/_{10}$	-3.9

Using the information from the table above, check whether the following pairs of lines are parallel, perpendicular, or neither:

		Parallel	Perpendicular	neither
1	8 and 14			X
2	10 and 11		X	
3	2 and 14			X
4	4 and 11	X		
5	1 and 10			X
6	3 and 18	X		
7	14 and 19		X	
8	6 and 7	X		
9	4 and 10		X	
10	7 and 12		X	

Fill in the table below:

	Equation	Slope	y-intercept	Point 1	Point 2
1	y = -4x + 4	**-4**	**(0,4)**	**(1,** 0)	(-3, **-8)**
2	y = 2x + 2	2	(0, 2)	**(1,4)**	**(2,6)**
3	y = 5x − 17	**5**	(0, -17)	**(4,3)**	**(5,** -7)
4	$y = \frac{1}{2}x + 3$	**-0.5**	**(0,3)**	**(4,** 1)	(10, **-2)**
5	$y = -\frac{9}{7}x + \frac{13}{7}$	$-\frac{9}{7}$	$(0, \frac{13}{7})$	**(3,-2)**	**(-4,7)**
6	y = 3x + 4	**3**	(0, 3)	**(-2, -2)**	**(3,** 13)
7	$y = \frac{5}{3}x - 5$	$\frac{5}{3}$	(0, -5)	**(0,-5)**	**(3, 0)**
8	y = 6x + 3	**6**	**(0,3)**	**(1,** 9)	$(\frac{1}{2},$ **6)**
9	y = x + 3	1	(0, 3)	**(2,5)**	**(4,7)**
10	y = -x − 5	**-1**	(0, 5)	**(-1, -6)**	**(-2,** -3)
11	y = 2x	**2**	**(0,0)**	(-3, -6)	(-6, -12)