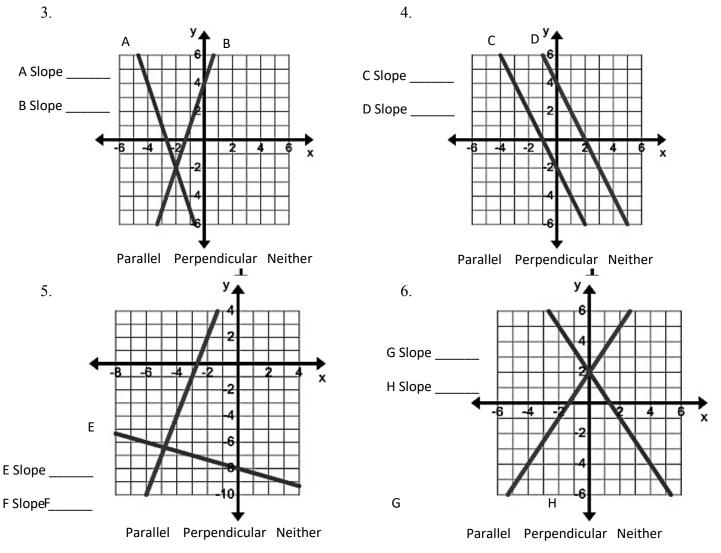
1.2H Train Tracks (Test Next Time) NO WORK, NO CREDIT. PENCIL ONLY.		Name:	Per:
1. Find the negative reci a. $\frac{2}{3}$	procal of the following b. $-\frac{2}{3}$	c. $\frac{3}{2}$	d. 3
			11 1

2. Explain how you know from their slopes whether the lines on the graph are parallel:______, perpendicular:______, or neither:______.

Given the graphs below, find **the slope** of each line and then circle whether the lines are **parallel**, **perpendicular**, **or neither**.



Tell whether the following lines are **parallel**, **perpendicular**, or **neither** given the equations below. SYW. 7. y = -2x + 5 and y - 2x = -38. -8y = 3x - 16 and 6y = 16x - 9

HDYK: HDYK:

All answers should be written in COMPLETE SENTENCES.

EXPLAIN how you know that the lines through the points are **parallel**, **perpendicular**, **or neither**. **THERE IS AN EXAMPLE. DO NOT COME TO CLASS WITH 9-11 BLANK**.

EX: Line A (2, 5) & (-2, 7); Line B (0, 4) & (1, 6) 9. Line C (1, 2) & (5, 4); Line D (0, 3) & (2, 4) Slope of Line A: $-\frac{1}{2}$ Slope of Line B: 2

The slopes of Line A and Line B are negative reciprocals, so the lines are **perpendicular**.

10. (0, -5) and (2, -4); (-1, -5) and (1, -6)11. (0, 2) and (-4, 8); (-4, 0) and (4, -12)

Write equations for the following:

12. a. Write any equation that would be parallel to the line $y = -\frac{1}{2}x + 6$.			
b. Change the equation from 12a to pass through the point $(10, 4)$.			
13. a. Write any equation that would be parallel to the line $2y = 3x - 8$.			
b. Change the equation from 13a to pass through the point $(6, -1)$.			
14. a. Write any equation that would be perpendicular to the line $y = -\frac{1}{2}x + 6$.			
-			
b. Change the equation from 14a to pass through the point (10, 4).			
15. a. Write any equation that would be perpendicular to the line $2y = 3x - 8$.			
b. Change the equation from 15a to pass through the point $(6, -1)$.			
Solve for x.			
16 - 1 - 15x + 5(-9x - 2) - 4x - 9 $17 - 2(4x + 2) + 4(6x + 1) - 42$			

$$16. -1 - 15x + 5(-8x - 2) = -4x - 8$$

$$17. -3(4x + 3) + 4(6x + 1) = 43$$

18.
$$-(1+7x) - 6(-7-x) = 36$$

19. $24x - 22 = -4(1-6x)$