

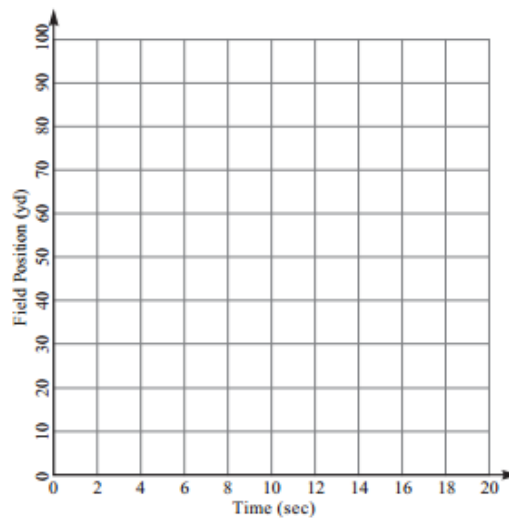
# T3-01 – Discovering Slope

Number \_\_\_\_\_ Name \_\_\_\_\_ Period \_\_\_\_\_

Coleman is a very fast running back on the football team. The coach recorded his times during a play that resulted in a touchdown. The play started on the 10-yard line. The data for Coleman's run are given in the table below.

$x$ Time (sec)	$y$ Field Position (yd)
0	10
2	26
6	58
10	90

- 1) Plot the data points on the graph. Connect the points with a line.

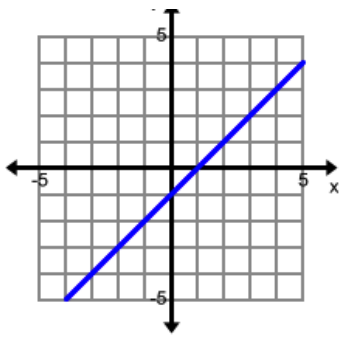


- 2) Use the data provided to calculate Coleman's speed during the time intervals given below.

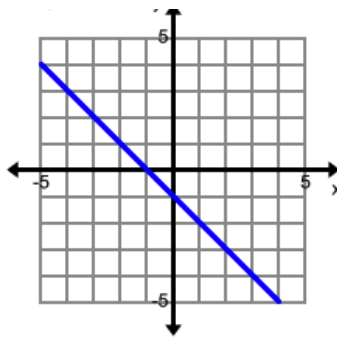
- a. 0 to 3 seconds \_\_\_\_\_
- b. 3 to 5 seconds \_\_\_\_\_
- c. 5 to 9 seconds \_\_\_\_\_
- d. 9 Seconds to when he scored a touchdown (100 yards) \_\_\_\_\_

Determine the slope of each line:

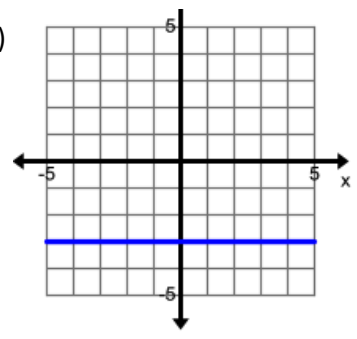
3)



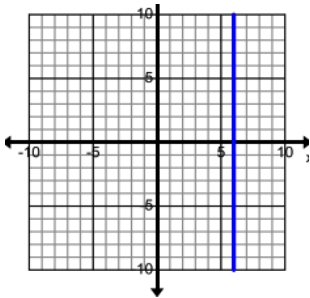
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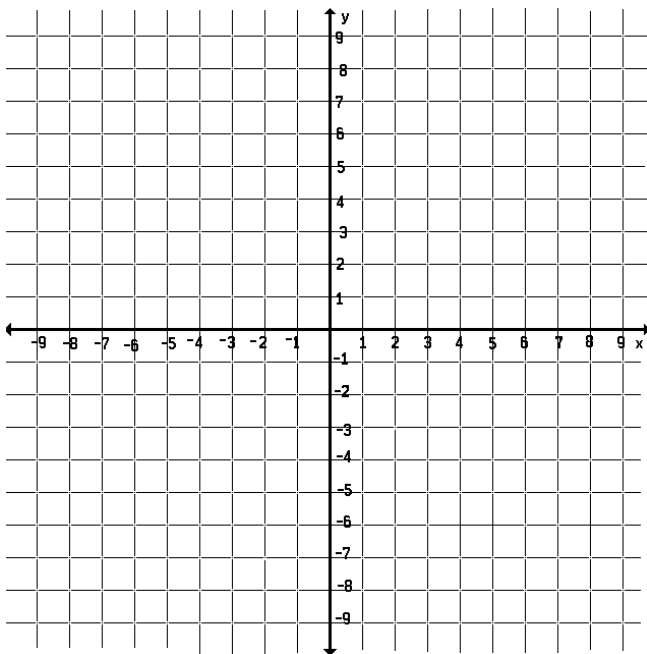
5)



6)



7) On the grid below, draw a line in RED that has a negative slope, a line in BLUE that has a positive slope, a line in BLACK that has zero slope, and a line in GREEN that has an undefined slope.



8) Give an example of when you would find a positive slope in the real world.

9) Give an example of when you would find a negative slope in the real world.

10) Give an example of when you would find a zero slope in the real world.

11) Give an example of when you would find an undefined slope in the real world.