

Day 2 - Slope from a Table - Notes

Calculate the slope using points in the table from our scenario at the beginning of the lesson. (Remember slope is the change in y divided the change in x.)

$$\frac{\Delta y}{\Delta x} = \frac{-100 \text{ ft}}{20 \text{ seconds}} = \frac{-5 \text{ ft}}{1 \text{ sec}}$$

$$\frac{\Delta y}{\Delta x} = \frac{-120 \text{ ft}}{24 \text{ seconds}} = \frac{-5 \text{ ft}}{1 \text{ sec}}$$

* Doesn't matter which two points you pick

Time	Elevation
0	320
20	220
24	200
64	0

a.

x	y
-1	13
0	-2
4	-62
10	-152

$$\frac{\Delta y}{\Delta x} = \frac{-15}{1} = -15$$

b.

x	y
7	9
18	9
29	9
40	9

$$\frac{\Delta y}{\Delta x} = \frac{0}{11} = 0$$

c.

Number of Touchdowns	Total Points Scored
2	12
3	18
4	24
5	30

$$\frac{\Delta y}{\Delta x} = \frac{6 \text{ points}}{1 \text{ touchdown}}$$

d.

Number of Lawns	Total Earned (in Dollars)
3	25.50
5	42.50
7	59.50
9	76.50

$$\frac{\Delta y}{\Delta x} = \frac{\$17}{2 \text{ lawns}} = \frac{\$8.50}{1 \text{ lawn}}$$