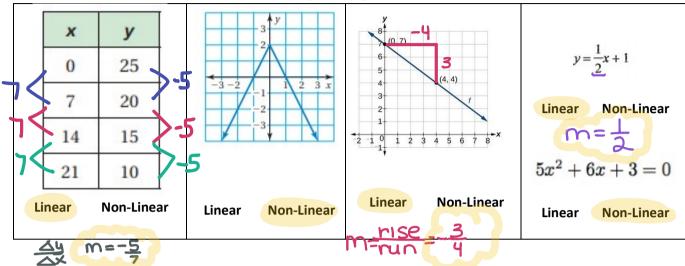
Assignment Page M2-239 - Lesson 4: Over the River and Through the Woods

Name PRACTICE

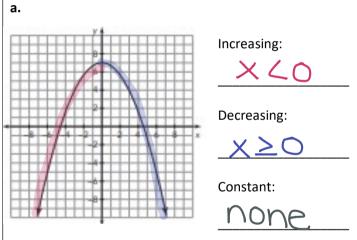
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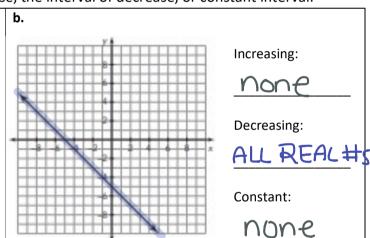
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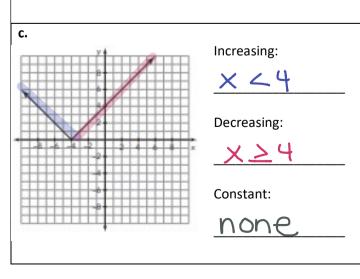
1. Given the graphs, equations and tables above, identify which tables of values are linear or non-linear functions. If it is a linear function, identify the slope.

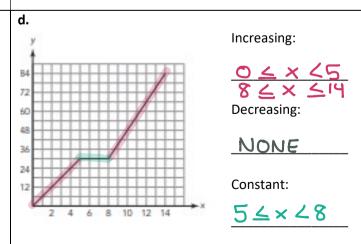


2. For each graph describe the interval of increase, the interval of decrease, or constant interval.

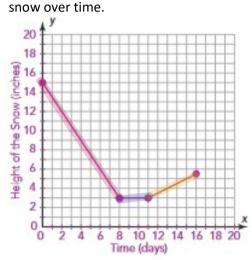








- 3. When Randall wakes up Thursday morning, there are 15 inches of snow on the ground. The meteorologist reports that because the air temperature is slowly increasing, the snow will melt at a rate of 1.5 inches per day for the next 8 days. Then extremely cold temperatures over the following 3 days will prevent the snow from melting anymore. However, on day 11 of this streak of winter weather, the meteorologist predicts steady snow for the next 5 days, but only 1/2 of an inch will accumulate per day.
 Let x represent the time in days since Thursday, and let y represent the height of the snow
 - a. Graph the function for the height of the

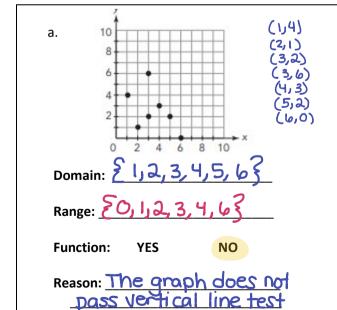


b. Describe each interval of increase, interval of decrease, or constant interval

Snow Description	Domain (Days)	Graphical Behavior (increasing, decreasing, or constant?)
Melting Snow	0≤d< <u>8</u>	decreasing
Not Melting	<u>8</u> ≤d ≤ <u> </u>	constant
Steady Snow	<d td="" ≤<=""><td>increasing</td></d>	increasing

REVIEW

4. State the domain and range of each relation. Then determine whether each is a function.



b.

x	у
-2	2
-1	2
0	2
1	2
2	2

Domain: $\{-2, -1, 0, 1, 2\}$

Range: { 2}

Function: YES NO

Reason: For every x-value only one y-value.