

Constant rate 12.1.16

Warm up

Go Over HW

Students start by trying

Pauline mows a lawn at a constant rate. Suppose she mows a 35-square-foot lawn in 2.5 minutes. What area, in square feet, can she mow in 10 minutes? And in t minutes?

Time in minutes	Linear Equation $y=35/2.5t$	y (area in square feet)
0	$y=35/2.5 * 0$	0
1	$y=35/2.5 * 1$	14
2	$y=35/2.5 * 2$	28
3	$y=35/2.5 * 3$	42

Plot this on the coordinate plane. Make sure to label the axis and scale accordingly.

Remember what we learned yesterday that the average speed is distance divided by time. Average rates can be calculated the same way. Imagine a faucet left leaking. If the faucet leaks V volumes of water of t amount of time we can find the average rate of water with v divided by t .

Suppose water flows at a constant rate out of a faucet. Suppose the volume of the water that comes out in 3 minutes is 10.5 gallons. How many gallons come out of the faucet in t minutes?

Make a table again and plot the coordinates accordingly..

You try into homework exercises 1, 2, and 3.