Curriculum Outcomes:

(PR1) Generalize a pattern arising from a problem-solving context using linear equations and verify by substitution.

(PR2) Graph linear relations, analyze the graph and interpolate or extrapolate to solve problems.

Student Friendly: Looking at a graph or t-table and determining if they are linear or non-linear or discrete or continuous



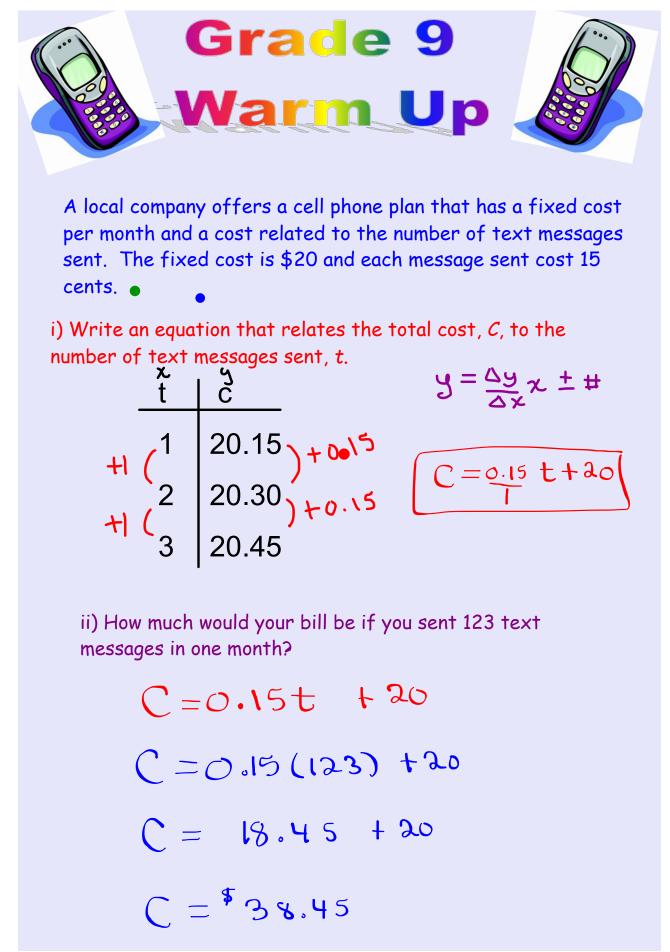
A local company offers a cell phone plan that has a fixed cost per month and a cost related to the number of text messages sent. The fixed cost is \$20 and each message sent cost 15 cents.

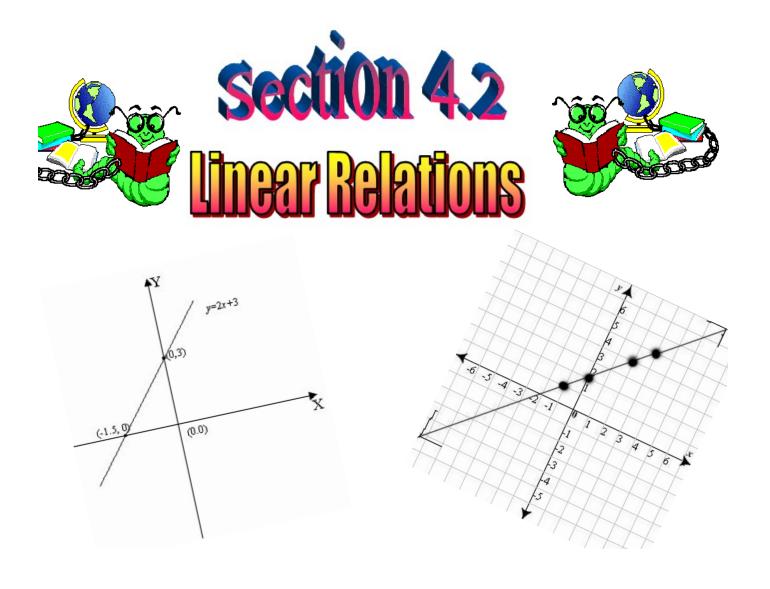
i) Write an equation that relates the total cost, C, to the number of text messages sent, t.

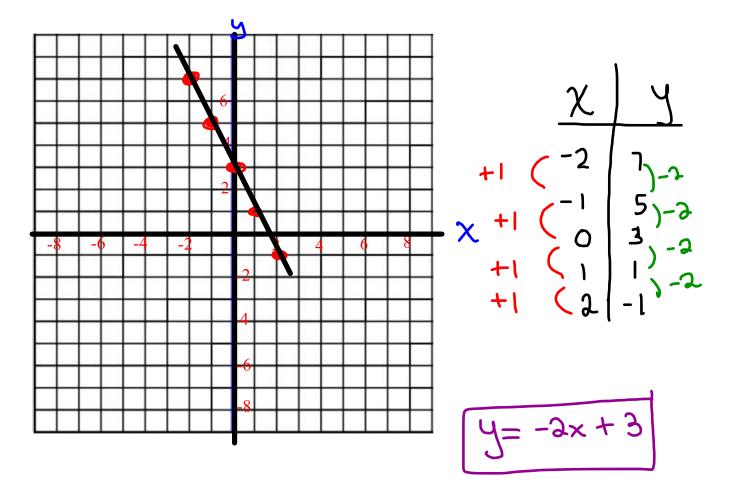
ii) How much would your bill be if you sent 123 text messages in one month?

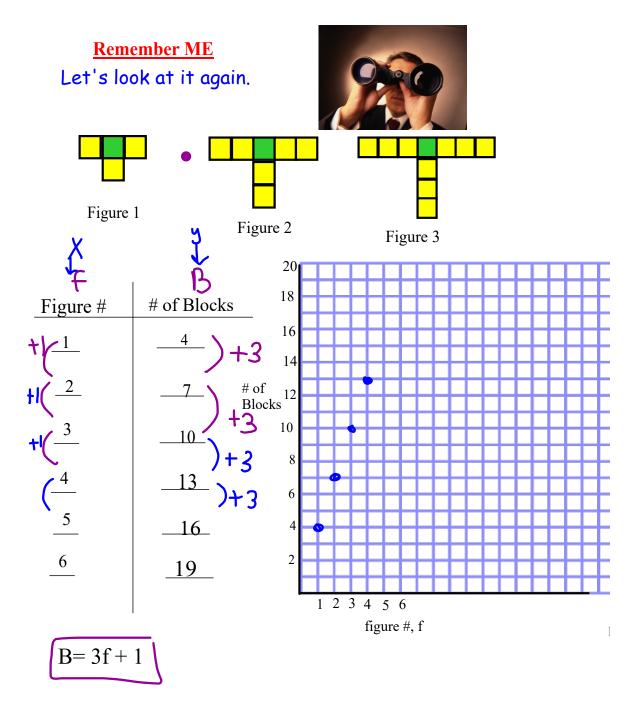
Day 4_ Section 4.2 day 1.notebook

March 12, 2020









THUS

For figure f, the number of blocks will be 3f + 1If n is the number of blocks then the <u>equation</u> is: n = 3f + 1

What changes the value of n???

So the value of _____ depends on the value of _____.

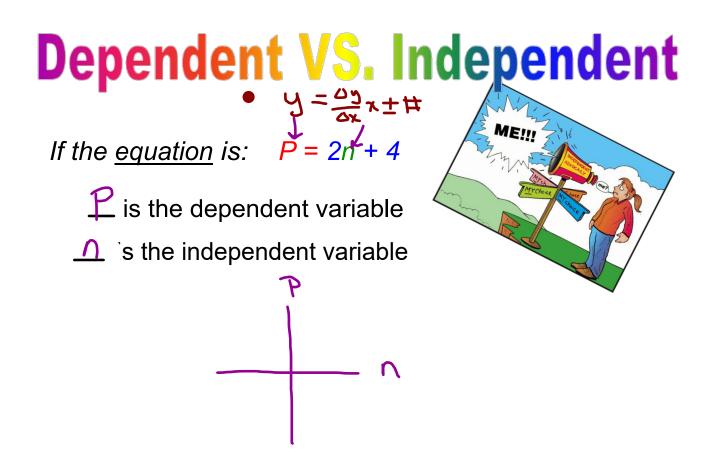
Dependent VS. Independent

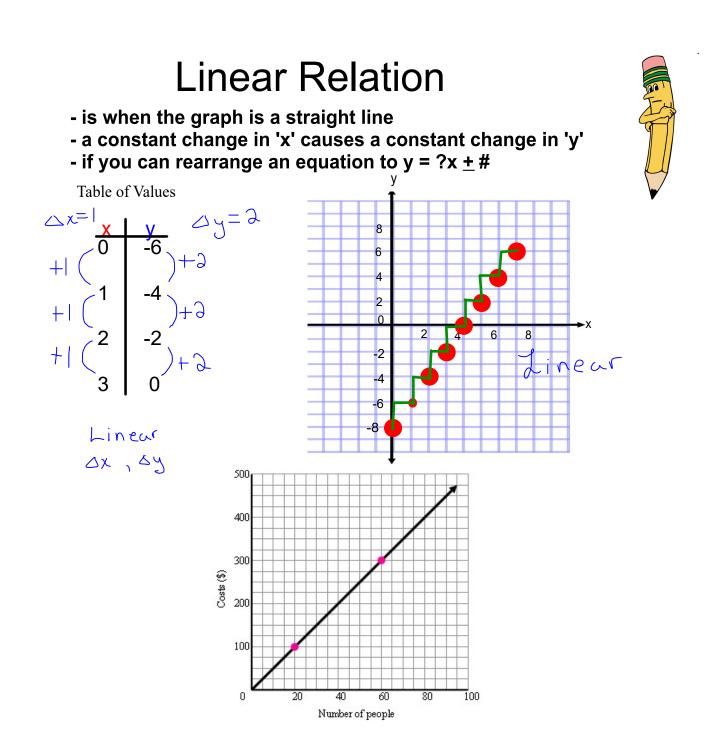
Dependent variable is always plotted on vertical axis (y-axis)

Independent variable is always plotted on the horizontal axis (x-axis)

$$y = \frac{\triangle y}{\triangle x} \times \pm \#$$

examples: y = -5x + 7





Continuous S. Discrete

Discrete: Dots

Continuous: Connected (Ime)



Think about the two situations



Cost of video games

χ	
Number of Video games	Cost, C(\$)
1	25
2	50
3	75

Babysitting Job

Earnings, C(\$
10
20
30

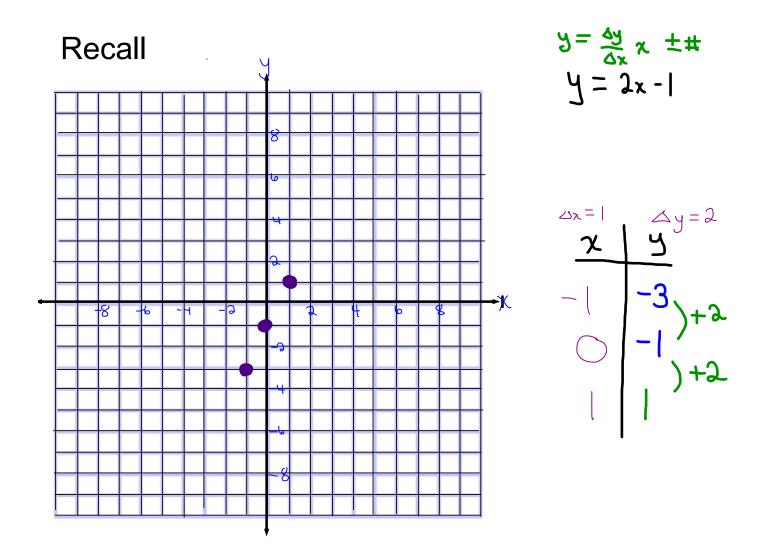
Can you buy 1.5 video games?

So would you connect the dots???

No

Can you work 1.5 hours?

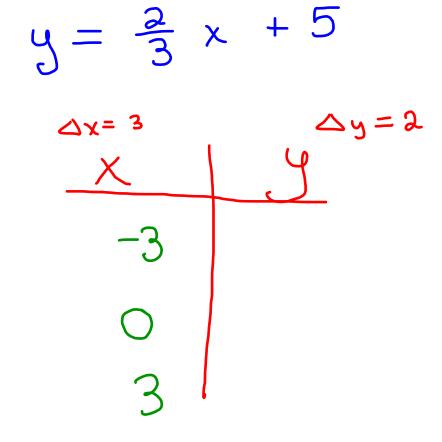
So would you connect the dots??? $y_e \leq s$



$$y = 2x - |$$

 $x = -1$ $x = 0$
 $y = 2(1) - |$ $y = 2(0) - |$
 $y = -3$ $y = -1$

11





Page 170 - 172 #4 Write a sentence for each

#5 a, b, c (i, ii, iii)

Write out the chart and show the common change in x any in y if it exist.

e the second sec

7 a,d