

DATE

9/3/14

1.1.2: How does it grow?

Lesson # and Question

p. 7) 1-9 to 1-12

Problems Assigned

Key words

Notes + Classwork

factors

1-9)(a) Perry, hot tub, 36 square tiles

direct variation

factors of 36? $1 \times 36, 2 \times 18 \dots$

vocab

exponential

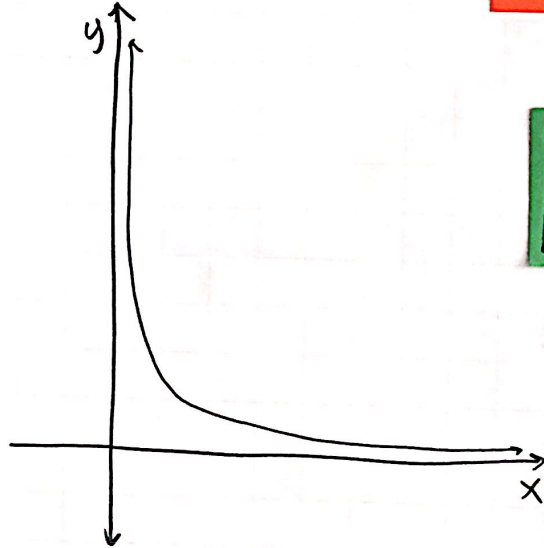
inverse

variation

Why doesn't the graph touch \emptyset ?

questions?

x	y
1	36
2	18
3	12
4	9
6	6
9	4
12	3
18	2
36	1



inverse variation means the same as inversely proportional where if the value of x -increases, y -decreases and vice versa.

CORNELL NOTES CLASSWORK

ON THE LEFT

Summary

Non-linear graphs take many different forms! Now I know when people say "exponentially" it means a lot! In the case of the flu problem, growing at a rate of tripling each day!

Page # and Problems

1.2.2, HW Day 2
p. 23) 1-47 to 1-51

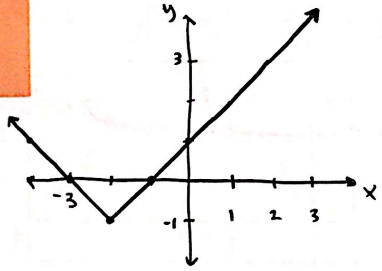
Lesson and HW number

Working Vertically ↓

1-47 Answer questions about
the graph $y = |x+2| - 1$

VERTICAL HALF-PAGE
FORMAT
HOMEWORK

ON THE
RIGHT



V-shaped graph, opening upwards.
As x -increases, y decreases from
left to right until $x = -2$, then
 y increases. x -intercepts: $(-3, 0)$ and $(-1, 0)$.
 y -intercept: $(0, 1)$. Minimum output of -1 .
Special point is vertex at $(-2, -1)$. Line
of symmetry is $x = -2$.

1-48 a) $|-4| - 3 = 1$

b) $|6 - 11 + 3| = 2$

1-48 cont'd

c) $-9 - |-2| = -9 - (2) = -9 - 2 = -11$

d) $5|6| - 2 =$ Write original question/
equation
 $5(6) - 2 = 30 - 2 = 28$

1-49 solve.

$$\begin{array}{r}
 3x + 7 = -x - 1 \\
 + x \qquad \quad -x \\
 \hline
 4x + 7 = 0 - 1 \\
 4x + 7 = -1 \\
 - 7 \qquad \quad -7 \\
 \hline
 4x = -8 \\
 \frac{4x}{4} = \frac{-8}{4}
 \end{array}$$

Box → ANSWERS $x = -2$