1. Which function has the greatest rate of change?

Rate of Change:

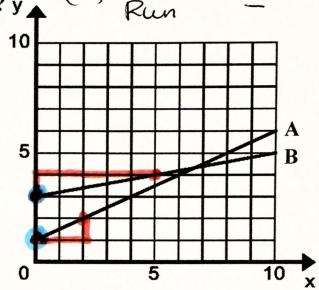
2. Which function has the least

(m)

IV A: 1 IV B: 3 10

ROC A: -

Initial value: (b) Starting amount when x=0



3. Which function has the greatest rate of change?

ROC A: =

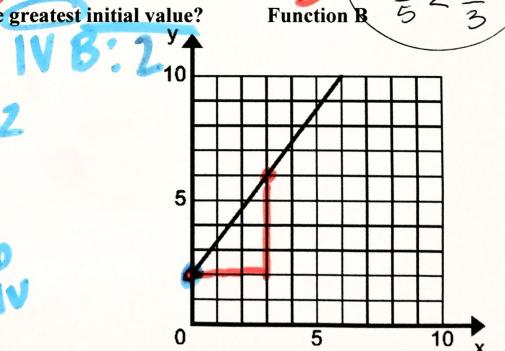
4. Which function has the greatest initial value?

IV A:5

Function A

 $y = \frac{2}{5}x + 5$





5. Which function has the least rate of change?

6. Which function has the greatest initial value?

B 2>3 A 10>8

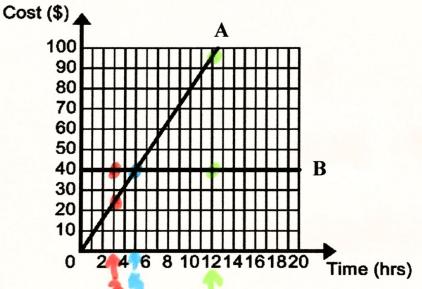
X	-4	(0)	4	8
у	2	10	18	26

$$\frac{2-10}{-4-0} = \frac{-8}{-4} = 2$$

Function B

$$y = \frac{3}{4}x + 8$$

You go to Lagoon on a hot summer day and discover they offer two different pricing options represented on the graph below.



7. Which situation costs less after 3 hours?



8. Which situation costs less after 5 hours?



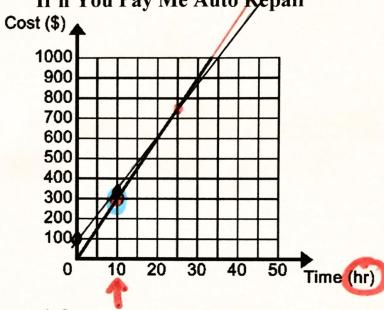
9. Which situation costs less after 12 hours?

You've got to pay a mechanic to get your motorcycle fixed and there are two mechanics in town. Their prices are represented below where x is the number CAL of hours it takes and y is the cost.

> Not Very Good But I'll Tr If'n You Pay Me Auto Repair



$$y = 25x + 100$$



10. Which shop costs less for a 10 hour repair?

CAL

4=25×+100 25(10)+100 \$350 250 +100

11. Which shop costs less for a 50 hour repair?

CAL

4=25x +100

NVGF(300)5 = 1500

25(30) † 100 1250 ± 100 = \$1350 12. Which shop costs less for a 20 hour repair?

CAL

y= 25(20) +100

NVG = 600

500 +100





Candy bars are on sale at two different stores. The prices are represented in the tables below where x is the number of candy bars and y is the cost in dollars.

We Sell Sweets

x	0	2	5	10
y	0	0.66	1.65	3.30

Ur Gonna Rot Yer Teeth Out

x	0	1	2	3
y	0	0.40	0.80	1.20

13. Which store has the best deal if you want to buy four candy bars?



14. Which store has the best deal if you want to buy twenty candy bars?

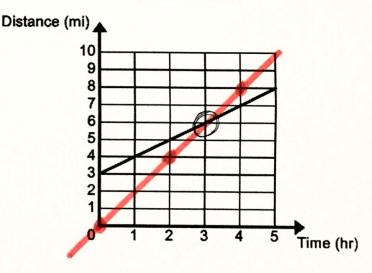


You and your friend start walking but your friend has a 3 mile head start. How long does it take you to catch up to your friend if x is the number of hours you've walked and y is the number of miles?

You

x	0	2	4	6
y	0	4	8	12

Your friend



15. How long will it take you to catch up to your friend?

3 hrs