

Name: Key Period: _____

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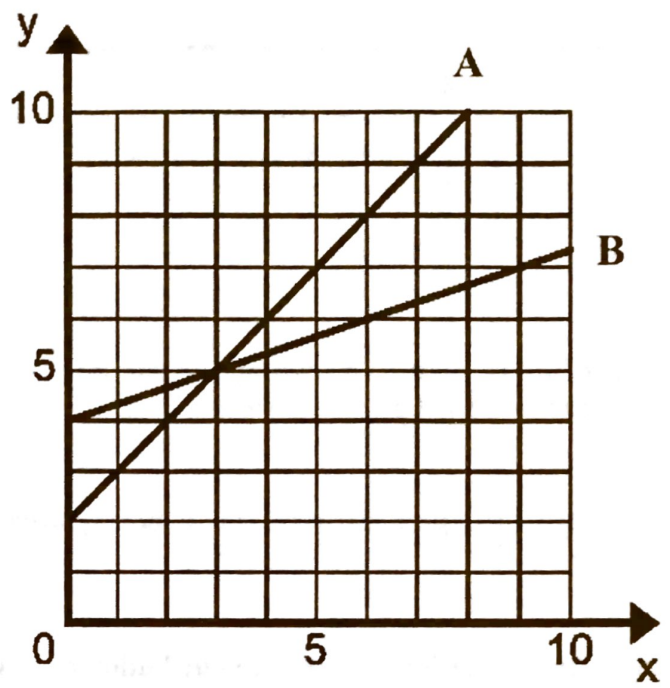
HW 3-5: Compare Properties of Functions

EXPLAIN all your answers using specific values.

1. Which function has the least slope?

B, because it is less steep than A. And because $\frac{1}{3} < 1$

2. Which function has the greatest y-intercept?



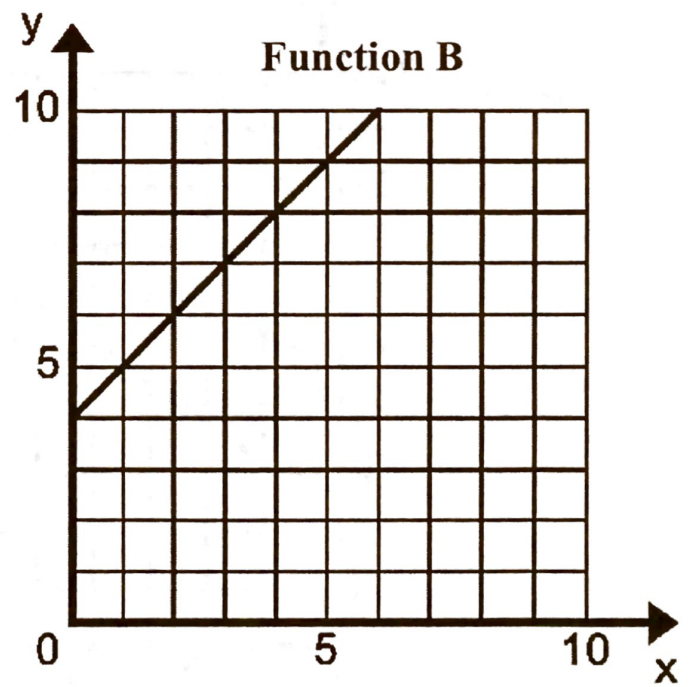
3. Which function has the greatest slope?

4. Which function has the greatest y-intercept?

B, because $4 > -3$

Function A

$y = 2x - 3$



5. Which function has the greatest slope? *B, because $3 > \frac{3}{2}$*

6. Which function has the greatest y-intercept?

Function A

Function B

x	-2	0	2	4
y	0	3	6	9

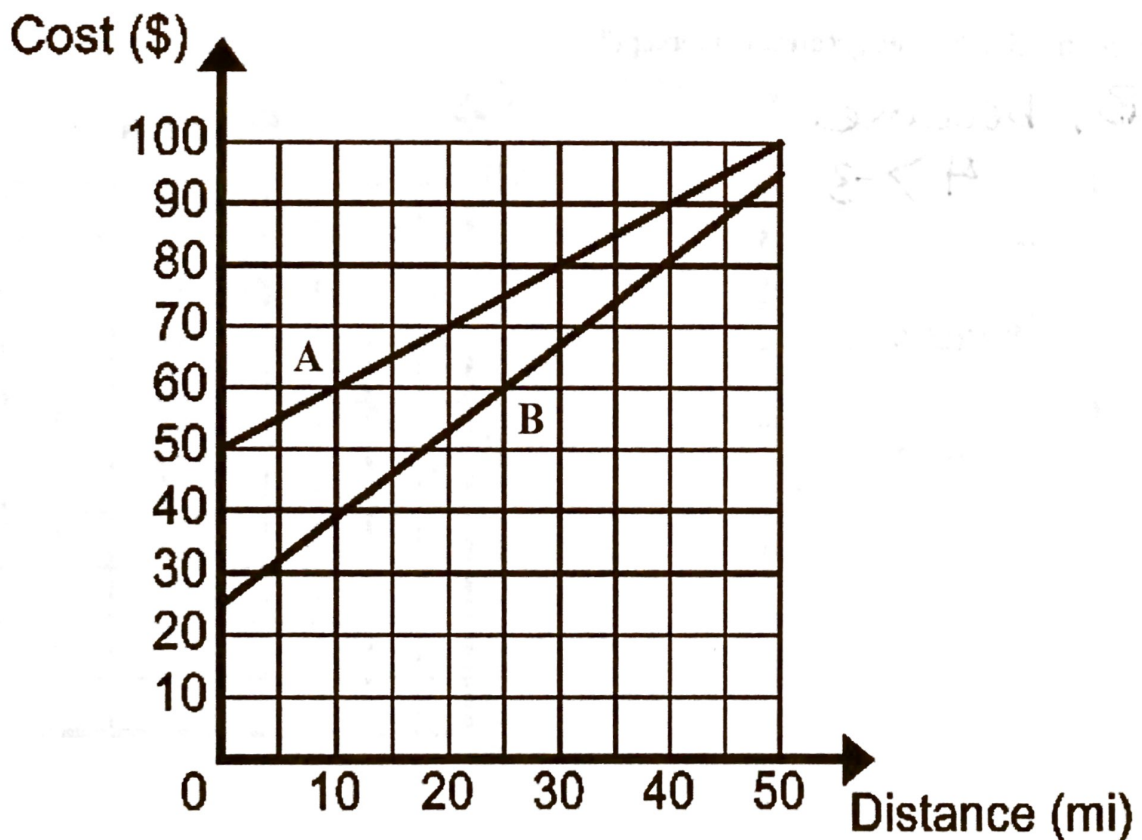
$$y = 3x + 4$$

Your buddy went river rafting last summer from a company that offered various costs represented by the graph below.

7. Which situation cost less if your buddy rafted 10 miles? *B, because 39-ish < 60*

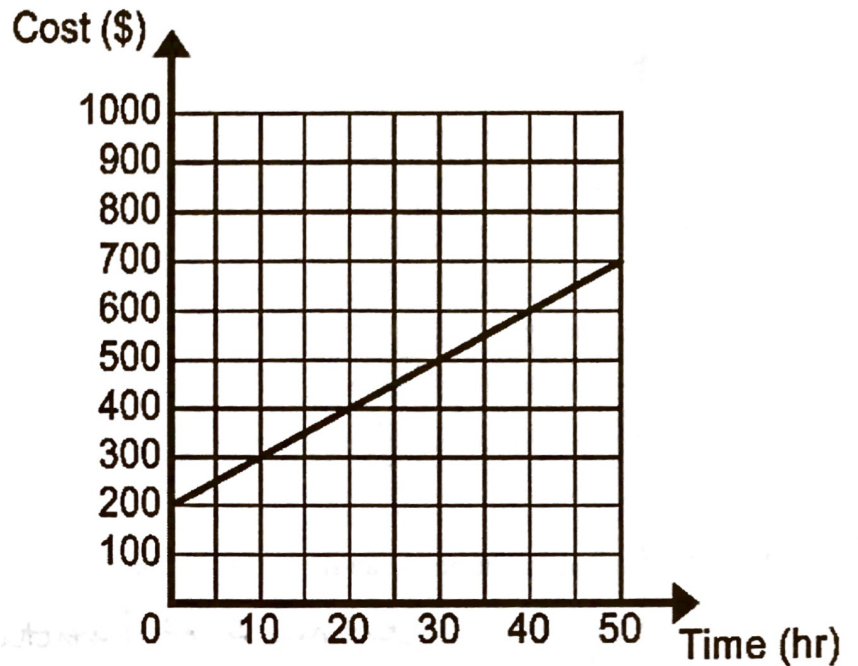
8. Which situation cost less if your buddy rafted 30 miles? ~~_____~~

9. Which situation cost less if your buddy rafted 50 miles? *B, because 95-ish < 100*



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

"I Only Fix Red Cars" Auto Repair



"Usually Not Able To Fix It" Auto Repair

$$y = 20x$$

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

11. Which shop costs less for a 20 hour repair? *They cost the same \$400.00*

12. Which shop costs less for a 70 hour repair?

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

All Up In Ur Face

x	0	3	6	9
y	0	45	90	135

Night Eyez

x	0	2	4	6
y	0	160	320	480

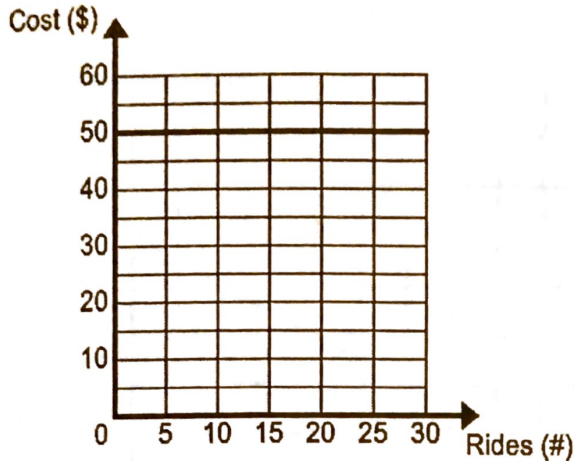
13. Which store has the best deal if you want to buy five tubes of mascara?

All Up in Ur Face

14. Which store has the best deal if you want to buy one tube of mascara?

There are many amusement parks in Orlando, Florida. Galaxial Studios attracts many customers because of their price points. Continents of Adventure is competitive and very nearby. The park prices are represented below where x is the number of rides you get and y is the number of dollars you spend.

Galaxial Studios



Continents of Adventure

x	0	5	10	15
y	0	10	20	30

15. Which amusement park should you attend if you plan on riding ten rides?

Continents of Adventure

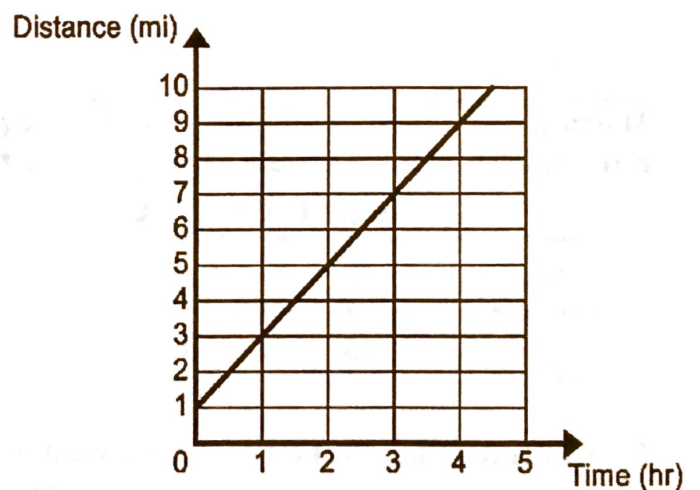
16. Which amusement park should you attend if you plan on riding forty rides?

You and your friend start walking but your friend has a 1 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	1	2	3
y	0	2.5	5	7.5

Your friend



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

2 hours