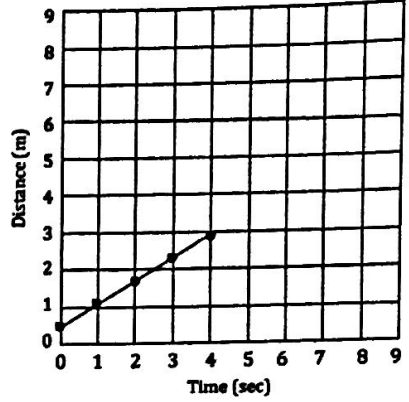


Unit 3/4 Review Multiple Choice Style

____ 1. The graph shows the relationship between Joey's distance from a motion detector and time. What is the rate of change from 1 to 4 seconds? Is Joey walking towards or away from the motion detector?

- a. 3/2 m/s; towards the motion detector
- b. 2/3 m/s; away from the motion detector
- c. 3/2 m/s; away from the motion detector
- d. 2/3 m/s; towards the motion detector

*Think...
rise
run*



____ 2. Mrs. Clay decides to open a savings account with State Employees Credit Union. She plans to deposit \$500.00 into the account initially and then \$100 per month. Which function rule will give the total amount, T, that she has in her account after n months?

- a. $T=100 + 500n$
- b. $T= 500 + 100$
- c. $T= 100n+500$
- d. $T= 500(100+n)$

____ 3. Given the table, determine the rate of change and interpret it in the context of the situation.

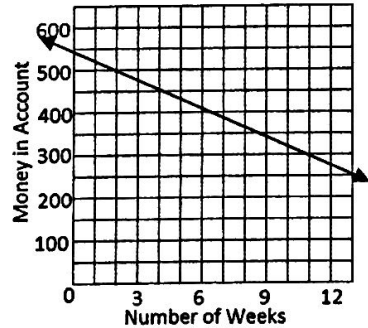
- a. 20; Initially, there are 20 gallons of water in the pool.
- b. 400; Initially, there are 400 gallons of water in the pool
- c. -20; Pool loses 20 gallons of water per min.
- d. -20; 20 minutes per gallon of water.

*Think...
change in y
change in x*

Number of minutes passed (x)	Gallons of water in pool (y)
0	400
2	360
4	320
6	280
8	240

____ 4. Given the graph to the right, find and interpret the y-intercept. *— where does it cross the y-axis?*

- a. (0,550); Initially, there is \$550 in the account.
- b. (550,0); There is \$550 in the account.
- c. -1/2; The money in the account decreases by \$0.50 per week.
- d. (0,550); The money in the account decreases by \$2 per week.



____ 5. Put the equation: $-2x + 4y = 8$ into slope-intercept form. *(Solve for y!) Takes two steps!*

- a. $y = -2x + 2$
- b. $y = \frac{1}{2}x + 2$
- c. $y = -4x + 2$
- d. $y = 4x + 2$

6. What is the x-intercept of the equation: $3y - 2x = 10$

"Cover it up with your thumb"

b. (15, 0)

b. (-3, 0)

c. (2, 0)

d. (-5, 0)

7. Graph: $y = -3x + 4$

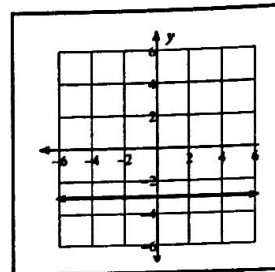
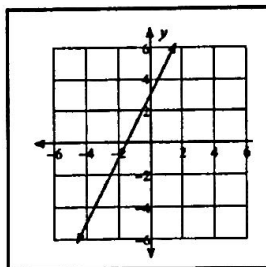
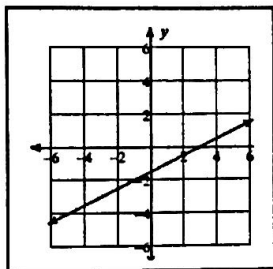
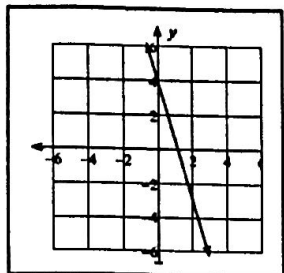
Where should I start? Then where should I go?

A.

B.

C.

D.



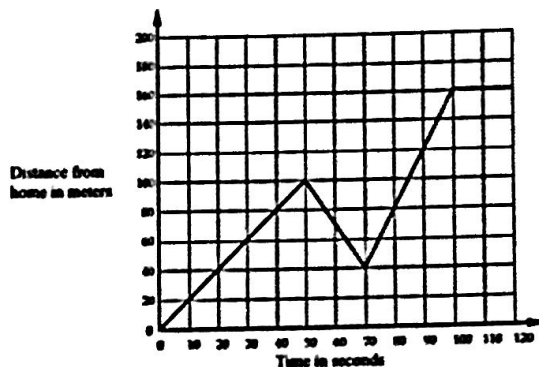
8. The accompanying graph shows Kim's distance from home to a neighbor's house in meters and seconds. When did she turn around to go home?

a. At 50 seconds

b. At 70 seconds

c. At 90 seconds

d. At 0 seconds



9. What was her rate of change for the trip back home to get the briefcase?

a. -3 m/sec

b. -60 m/sec

c. -3/2 m/sec

d. -30 m/sec

10. What would the correct r value be for the ordered pairs (r, 8) and (5, -1) if the slope between them is 9?

a. $r = 0$

b. $r = 6$

c. $r = -6$

d. $r = -3$

use the formula

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{9}{1}$$

Then cross multiply!