

# MidtermReviewANS p11,12,13

## Answers to EXTRA practice

1.a)  $x=5$

b)  $x=12$

c)  $x=-1$

d)  $x=-4$

e)  $x=7$

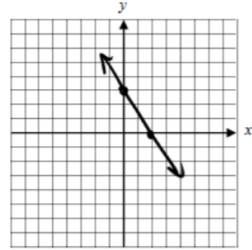
2. a)  $y=-2x + 6$

b)  $y=3x+4$

3. a)  $w = \frac{P-2l}{2}$

b)  $h = \frac{S}{2\pi r}$

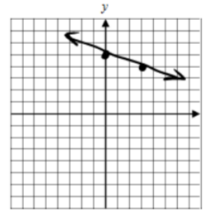
4. x intercept (2,0) , y intercept (0, 3)



5.

x	y = 1.5x + 3
-2	0
-1	1.5
0	3
1	4.5
2	6
3	7.5

6.



7. a)  $y = -\frac{2}{5}x + \#$

b)  $y = \frac{5}{2}x + \#$

c)  $y = 4x - 2$

d)  $y = 5x - 11$

8. a)  $y = -\frac{3}{2}x - 1$

b)  $y = 4x - 4$

9.a) Let x represent the number of visits.

Let y represent the total cost.

$$y = 5x + 25$$

$$y = 3x + 35$$

b) Let x represent the number of guests.

Let y represent the total cost.

$$y = 15x + 500$$

$$y = 18x + 410$$

c) Let x represent number of kilometres.

Let y represent the total cost of renting the truck.

$$y = 0.22x + 80$$

$$y = 0.12x + 100$$

d) Let x represent number of cars.

Let y represent number of trucks.

$$x + y = 8$$

$$2x + y = 11$$

e) Let x represent the amount invested at 8%.

Let y represent the amount invested at 7.5%

$$x + y = 3050$$

$$0.08x + 0.075y = 234$$

f) Let x represent number of cars.

Let y represent number of vans.

$$x + y = 52$$

$$7x + 10y = 457$$