REVIEW SHEET #2 MTH 020 EXAM #2 REV 3/2017
SHOULD BE DONE RIGHT BEFORE THE SECOND EXAM
NOTE TO TEACHERS:. IF NECESSARY, PROVIDE AN ANSWER KEY FOR YOUR STUDENTS
NOTE TO STUDENTS: TO STUDY FOR EXAM 2, STUDY REVIEW SHEET #2, PROBLEM SET #2, AND DO MML HOMEWORK

PROBLEMS A to G are similar to CEAFE problems:

A.What is the value of the y coordinate of the solution to the system of equations.:

$$x + 3y = 2$$
$$-3x - 8y = 4$$

B. Is (3,-1) a solution to $x - 4y = 7$
$4x + 3y = -9$

C. What is the equation of a horizontal line through (-3,7)

D. Draw the graph of the equation . Hint : Find x and y intercepts

$$-3x + 4y = 12$$

E. Find the equation of the line passing through the points (-2, 3) and (1, -3).

Then write the equation in slope intercept form.

F. Find the equation of the vertical line passing through the point (-5, -2)

G. Find the slope and y intercept for the graph of the equation:

` $3x + 4y = 8$

MORE PROBLEMS:

1. **Find each rate. <u>Sec 3.4</u>**

(a) Joe bikes 40 miles in 6 hours
(b) 16 bananas cost $19.20
(c) Al lost 24 pounds in 8 days

2. **Word problems with proportions. <u>Section 6.7</u>**
Solve be setting up a proportion.

(a) If there are 14 rotten apples in a barrel of 51, how many rotten apples would be in a barrel of 204?
(b) Dale rode a rental bike for 4 hours and cost $25.00. How much would it cost if Dale rode for 10 hours?

(c) Deidra rented a bike from the same place and spent $112.50. How long did she rent the bike for?

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(d) Alice can paint 3 rooms in 7 hours. If she works for 84 hours, how many rooms can she paint?

(e) McDonald's four piece chicken nugget has 200 calories. How many calories are in a nine piece chicken nugget?

3. Graph each line and write the slope: Sec 3.3 & 3.5

(a) x = -3
(b) y = 5
(c) 5x = 15
(d) y = 0
(e) -2y = 6

4. Graphing by intercepts. Sec 3.3

(a) Find the *x*-intercept and *y*-intercept for $5x-4y=20$.

(b) Graph this line using the *x*-intercept and *y*-intercept
(c) Find the x and y intercepts for -3x + 6y = -24
(d) Graph this line using the x-intercept and y-intercept

5. Slope: Sec 3.5
(a) Find the slope of the line containing the points whose coordinates are (3,0) and (6,9)

(b) Find the slope of the line containing the points whose coordinates are $(-1,4)$ and $(5,-8)$

(c) Draw a line passing through coordinates (0,4) with slope $-\frac{1}{4}$ through point

(d) Graph y = -2 and state the slope
(e) Graph 8x = 24 and state the slope

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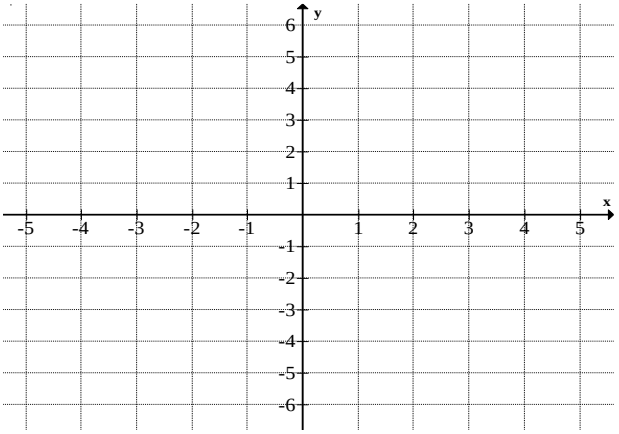
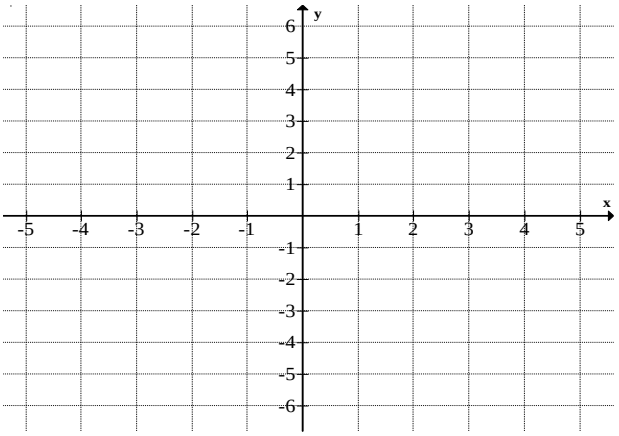


(d) Draw a line passing through (-2,3) with slope 0



6. **Sec 3.6**

(a) Find the slope and y-intercept of $6x + 3y = 12$.

(b) Graph the line in (a) using the slope and y-intercept.

(c) Find the slope and y-intercept of the graph of $y = -\frac{2}{3}x - 2$

(d) Graph the line in (c) using the slope and y-intercept.

7. **Sec 3.6, 3.7**

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(a) Find the equation of the line that passes through the point whose coordinates are (2 , –1) and has slope 3.

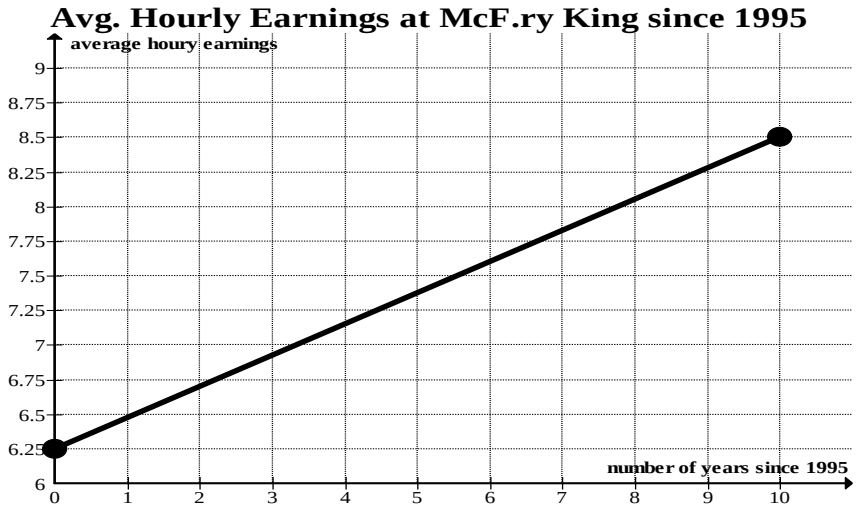
(b) Find the equation of the line that contains points whose coordinates are (4 , 1) and (5 , 3).

(c) Find the equation of the vertical line that passes through the point whose coordinates are (-1 , 2)

(e) Determine whether each pair of equations represents parallel lines.
Y= 2x + 3 and 7y + 2x = 4

(f) y = -3x + 4 and 6x + 2y = 10

8. Determine an equation for this graph.



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9. Solving a system of two equation by Graphing Method: **Sec 7,1**

(a) $y = 3x - 3$
$7x + y = 7$

(b) $y = -2x + 4$
$5x + y = 10$

(c) $y = -4x + 8$
$x - y = 7$

(d) $3x - 2y = -6$
$6x - y = 6$

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10. Solve the system of equations by Substitution method: **Sec 7.2**

(a) $y = 2x - 1$
$3y - x = 12$

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11. Solving a system of two equation by Elimination by Addition Method: **Sec 7.3**

$-x - y = 10$
$5x - y = -26$

12. Use any method to solve a system to find the value of the x-coordinate to the following system of equations.

$x - y = -3$
$2x + y = 18$

3/2017 Revised