CH. 9 - BOARD PROBLEMS

- what is the formula for the equation of a line?
- 2) Define Slope and intercept.

- (3) what is the x-coordinate at the Y-Intercept point?
 - 4) What is the equation of a horizontal line crossing the y-axis at -2?

what is the slope?

6) what is the equation of a vertical line that crosses the x-axis at +3?

What is the slope?

6 which of the Following is true for (-2,-6) A. Y= X+4

B. Y=3x-2

C. X=Y-4

D. Y=X-H

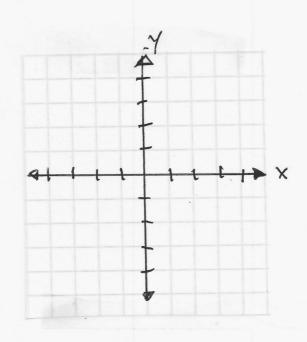
E. X=34-2

NOTE CH. 9

PARALLEL LINES HAVE THE ____

PLOT
(a)
$$Y = \frac{2}{3}x + 2$$

(b) $Y = \frac{2}{3}x$
(c) $Y = \frac{2}{3}x - 3$



STANDARD EQUATION OF A LINE

Ax + By = C, where A,B,C are numbers $2x + 3y = 6 \rightarrow How would we GRAPH?$

OTHER DIRECTION: SLOPE INT > STANDARD

Y = 4 x + 2

NOTE:

Notes Ch. 9

Convert to Graph FORM

Convert to STANDARD FORM

a)
$$3x + 2y = 8$$

b)
$$y = -2x - 1$$

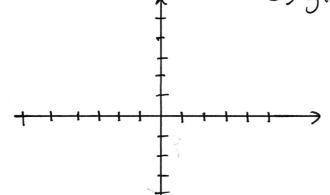
c)
$$x + 2y = -4$$

a)
$$y = \frac{3}{2} x + 2$$

d)
$$2x - y = 5$$

GIVEN TWO POINTS, a) graph b) give stope-int formula

c) give standard form



2) (6,4) (3,-2)

NOTES: SYSTEMATIC REVIEW

A package costs \$250. Tax is 6% AND SHIPPING IS 8%. WHAT IS THE TOTAL COST TO CUSTOMER?

DINNER COSTS \$850. TAX 13 9% AND TIP 15 20%. WHAT IS YOUR TOTAL COST? HOW MANY HOURS WOULD YOU HAVE TO WORK TO PAY FOR THAT DINNER?

LESSON PRACTICE

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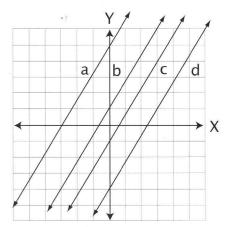
Fill in the blanks.

1. Write the slope-intercept formula for lines a, b, c, and d.

line
$$a$$
. $m = ___, b = ___, Y = _____$

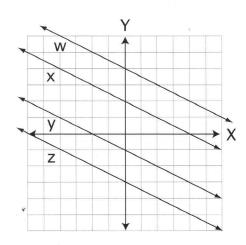
line c.
$$m = ___, b = ___, Y = ____$$

line
$$d$$
. $m = ___, b = ___, Y = _____$



2. Write the slope-intercept formula for lines w, x, y, and z.

line
$$x$$
. $m = ___, b = ___, Y = _____$



Be sure all the equations are in the slope-intercept form before comparing the slopes. There may be more than one answer for some of these questions.

3. Which of the following lines are parallel to Y = -3X + 2?

A.
$$Y = 1/3 X - 2$$

B.
$$Y = -3X$$

C.
$$Y = 4 - 3X$$

4. Which of the following lines are parallel to Y = 1/2 X - 5?

A.
$$Y = 1/4 X + 5$$

B.
$$Y = -1/2 X + 2$$

C.
$$Y = 4 + 4/8 X$$

5. Which of the following lines are parallel to 2Y - 3X = 4?

A.
$$Y = 2/3 X + 4$$

B.
$$Y = 6/4 X$$

C.
$$2Y = 8 - 3X$$

6. Which of the following lines are parallel to 3Y + 4X = -6?

A.
$$Y = 12/9 X - 1$$

B.
$$3Y = -4X + 0$$

C.
$$-2Y = 5X - 8$$

7. Change -Y + 2X = 4 to the slope-intercept form of the equation of a line.

8. Change Y - 4X = 0 to the slope-intercept form of the equation of a line.

9. Change -2Y - X = -2 to the slope-intercept form of the equation of a line.

10. Change 3Y - 2X = -6 to the slope-intercept form of the equation of a line.

11. Change -4Y - 3X = -8 to the slope-intercept form of the equation of a line.

12. Change Y = -5/3 X - 2 to the standard form of the equation of a line.

13. Change Y = 4X - 3 to the standard form of the equation of a line.

14. Change Y = 1/4 X + 3 to the standard form of the equation of a line.

15. Change Y = -3/5 X - 1 to the standard form of the equation of a line.

16. Change Y = 3X to the standard form of the equation of a line.