Ch. 12 - Board Problems

FIND SLOPE, INTERCEPT, EQUATION OF A LINE FOR THE FOLLOWING PAURS OF POINTS.

PUT BOTH EQUATIONS INTO STANDARD FORM.

1 mi = 1.6 km 1 mi = 5280 ft 1 ton = 2000 lbs

1 quart = 2 pints 1 pint = 2 cups

4 quarts = 1 gallons

16 ou = 1 lb

1) 5 mi = ____km

2) 3 km = ____ mi

3) 3 qt = ____cups

4) 3 cups = ____ qt

5) 3 lb = ____ou

6) 49 ou = _____lb

7) 500 lb = ____ton

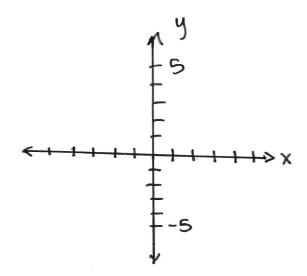
8) 3 ton = ____ lb

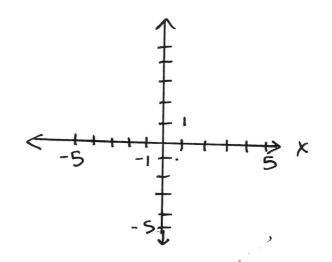
9) 5280 mi = ____yd

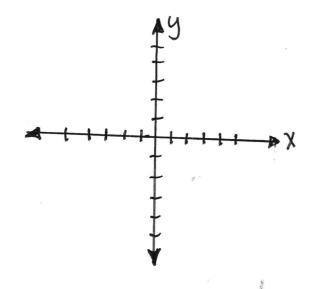
10) 8.5 mi = _____ feet = ____ yds

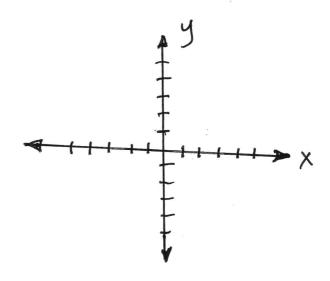
NOTES Ch. 12 GRAPHING INEQUALITIES

$$Y = 2x - 3$$





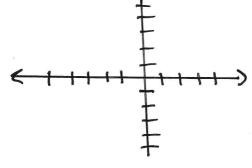


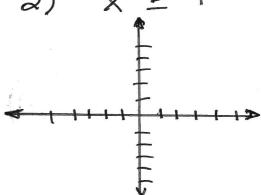


-2y = 3x + 6 What do you do first?

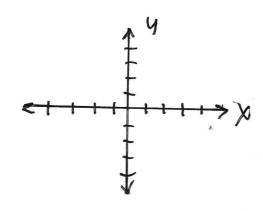
RULE:

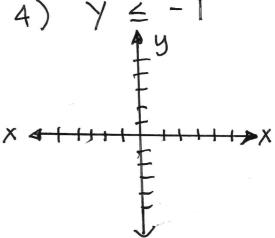
GRAPH





3)
$$3x - 4y > 4$$





LESSON PRACTICE

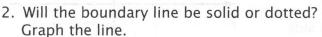
12A

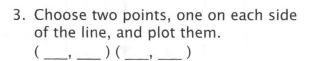
Follow the steps to graph each inequality.

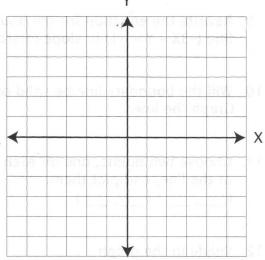
For #1-4 $3Y \le X + 9$

1. Write the equation for the line that will form the boundary, and then rewrite it in slope-intercept form.

3Y = X + 9 in slope-intercept form is Y = 1/3 X + 3.



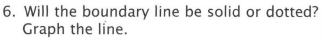


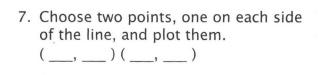


4. Shade in the graph.

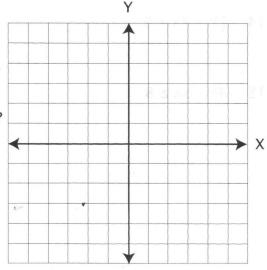
For #5-8 2Y > -X - 4

5. Rewrite the equation for the boundary line (2Y = -X - 4) in slope-intercept form.



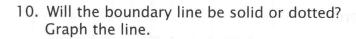


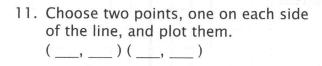




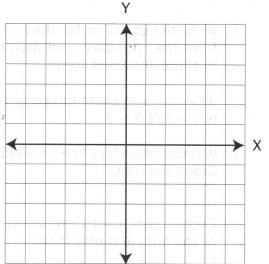
For #9-12
$$-3X - Y \le -1$$

9. Rewrite the equation for the boundary line (-3X - Y = -1) in slope-intercept form.





12. Shade in the graph.



Write each inequality in slope-intercept form.

13.
$$X + Y > -2$$

$$14. -2Y + 4X < 6$$

15.
$$-4Y - 8X \ge 8$$

SYSTEMATIC REVIEW 12E

Answer the questions.

- 11. What fraction of a gallon is a pint?
- 12. What percent of a gallon is a quart?
- 13. Since 1 quart = .95 liters, 1 gallon = ____ liters.
- 14. Since 1 quart = .95 liters, ____ quarts = 1 liter.
- 15. What is the slope of a line parallel to 1/2 Y = X + 16?
- 16. What is the slope of a line perpendicular to the line in #15?
- 17. Write the equation for a line with a slope of 3 that passes through the point (-3, -4).
- 18. Change 12/17 to a decimal (round to hundredths) and to a percent.
- 19. 17% of 425 =
- 20. The point (5, -5) lies in which quadrant?