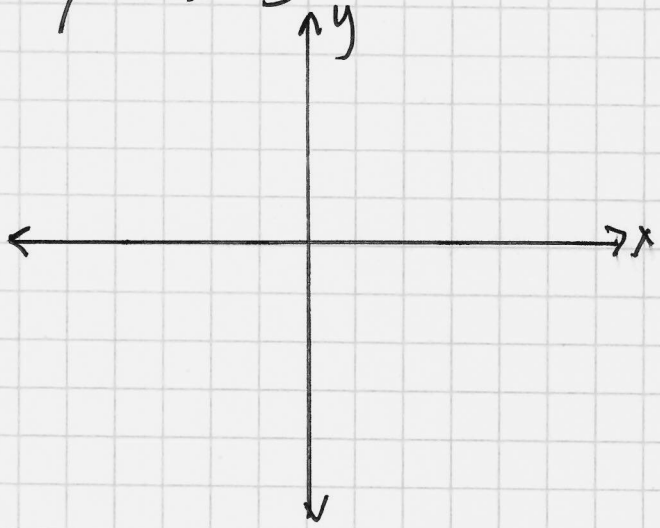
Board Problems Ch. 7

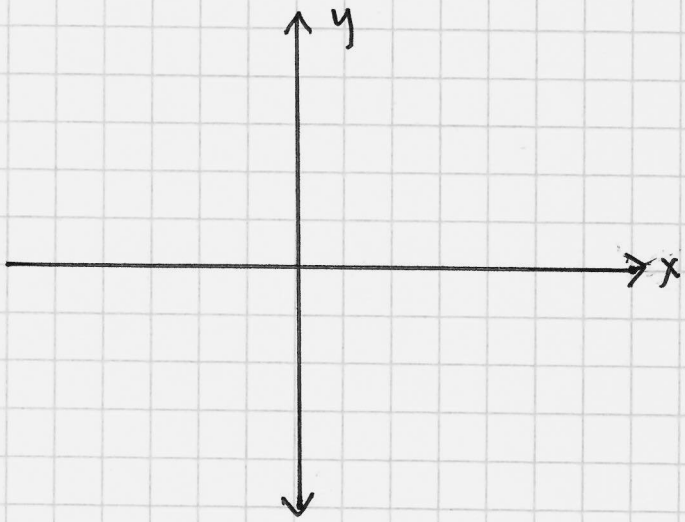
① $y = 2x - 3$

Fill in T-chart
Plot on Graph



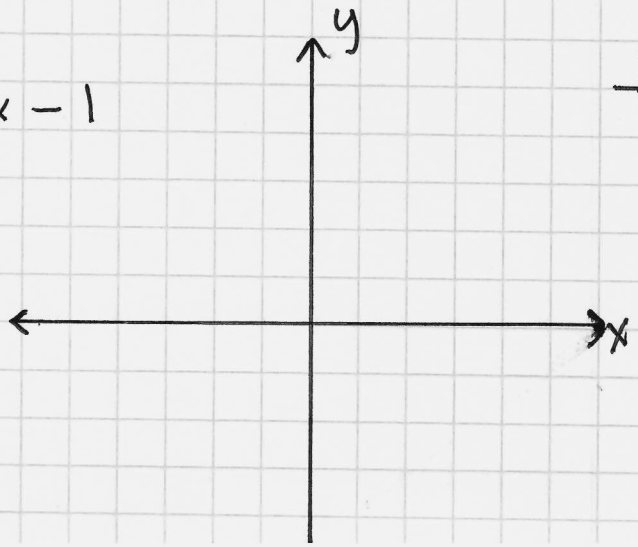
X	Y

② $Y = 2x + 2$



X	Y

③ $Y = \frac{1}{2}x - 1$



X	Y

Ch. 7 NOTES - SLOPE - INTERCEPT FORMULA

$Y = \_\cdot\_ + \_$

$X =$

$Y =$

$m =$

$b =$

SLOPE $= \frac{\quad}{\quad} = \frac{\quad}{\quad}$

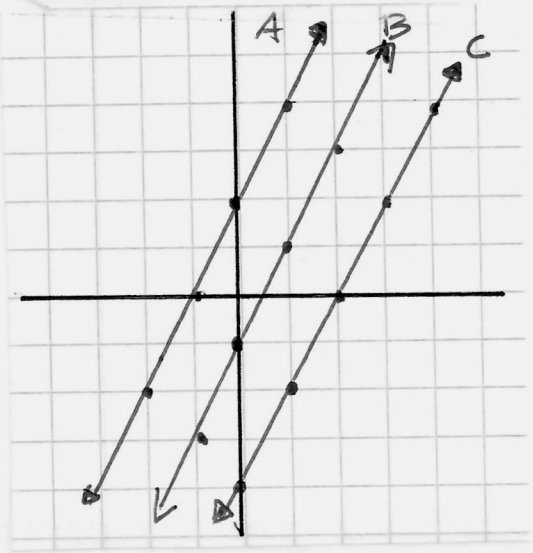
+ SLOPE =

− SLOPE =

NOTES Ch. 7

$Y = mx + b$ ← MEMORIZE

$Y = 2x + 3$



WHAT IS THE SLOPE OF EACH LINE?

A) $m =$ ___

B) $m =$ ___

C) $m =$ ___

WHAT IS DIFFERENT FOR EACH LINE?

A)

B)

C)

PLOT

A) $y = -x + 2$

B) $y = -x$

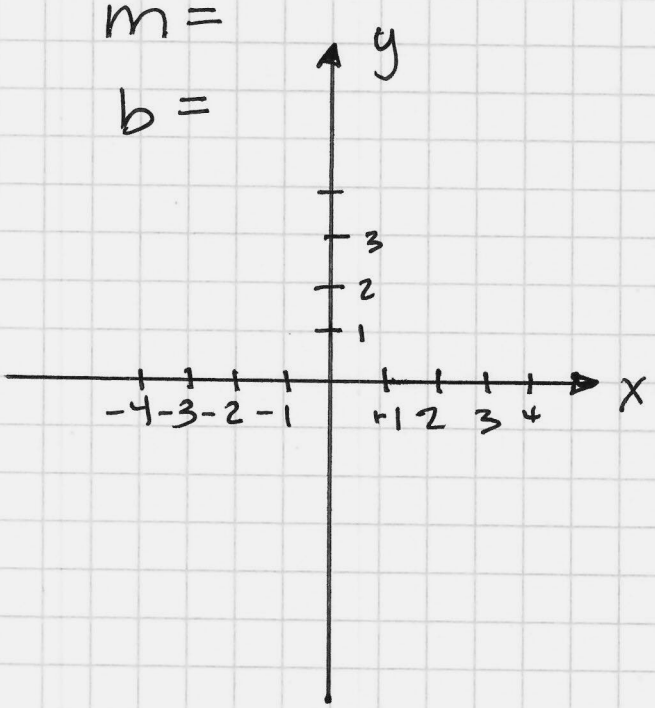
C) $y = -x - 3$

Ch. 7 NOTES - Special CASES

$X = -3$

$m =$

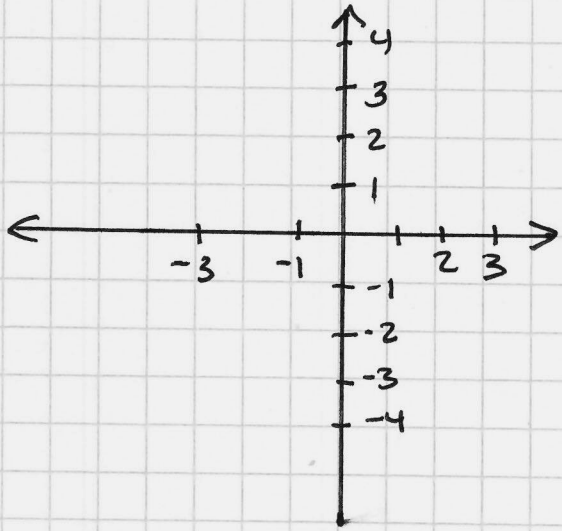
$b =$



$Y = 4$

$m =$

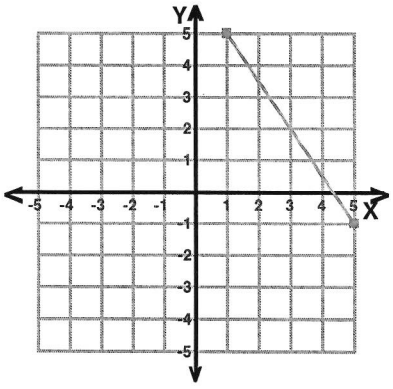
$b =$



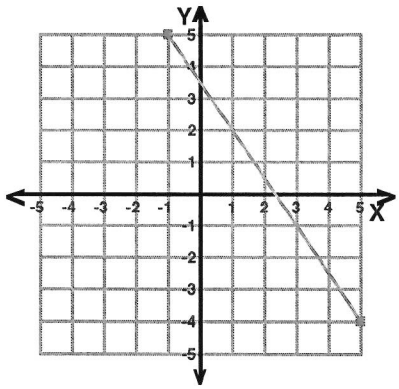
Name : _____ Score : _____

Teacher : _____ Date : _____

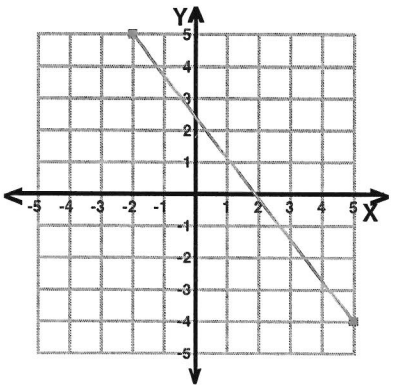
What is the slope of each line ?

1) 

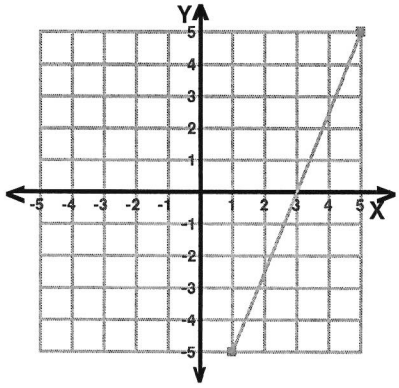
Slope = _____

2) 

Slope = _____

3) 

Slope = _____

4) 

Slope = _____

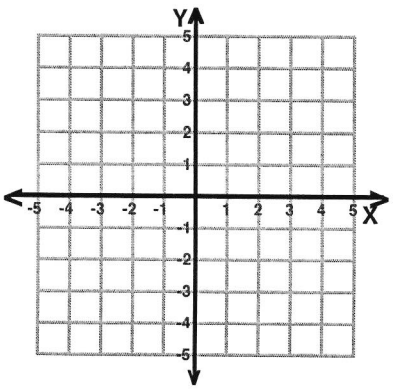
5) $y = \frac{1}{5}x + 2$ Slope = _____

6) $y = \frac{1}{3}x - 2$ Slope = _____

7) $y = \frac{1}{2}x + 1$ Slope = _____

8) $y = \frac{4}{9}x + 1$ Slope = _____

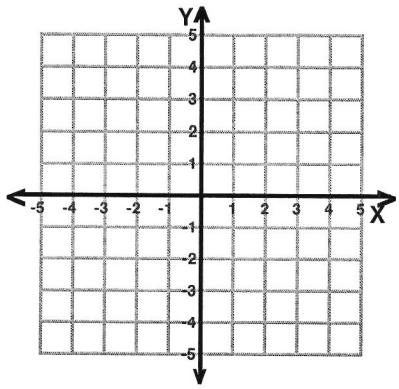
Write the slope-intercept form and plot the equation of each line given the slope and y-intercept.

9) 

Slope = $-\frac{5}{2}$

y-intercept = -2

Equation : _____

10) 

Slope = - 6

y-intercept = 3

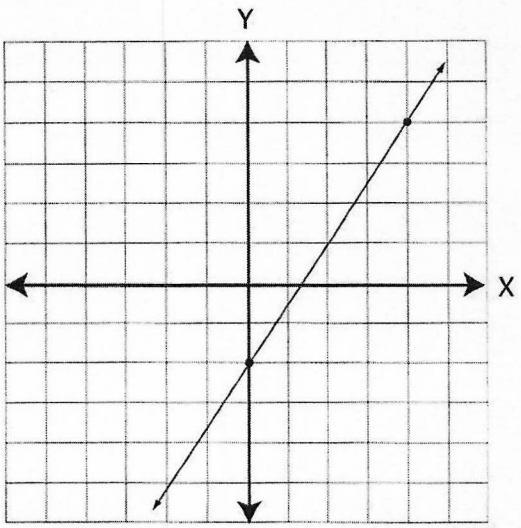
Equation : _____

Fill in the blanks.

1 A line that includes the point (0, -3) has a Y-intercept of _____ .

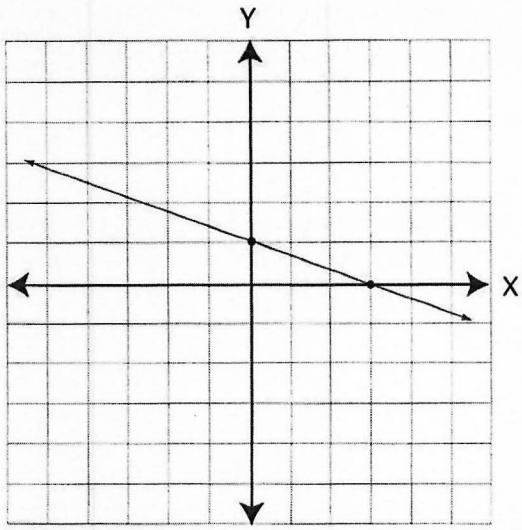
2. A line with a negative slope slants _____ to the right.

Find the slope and intercept of each line, and then write the slope–intercept formula for the line.



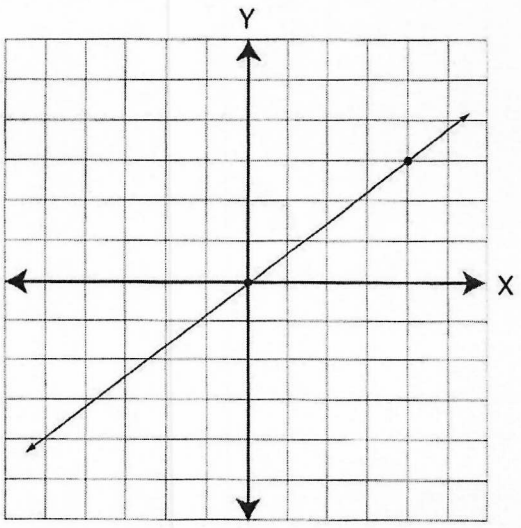
3. m = _____ b = ____

4. Y = _____



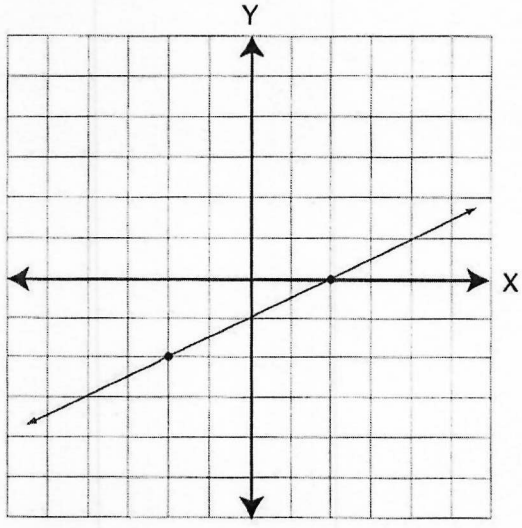
5. m = _____ b = ____

6. Y = _____



7. m = _____ b = ____

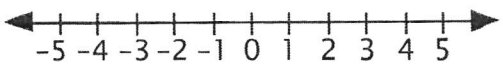
8. Y = _____



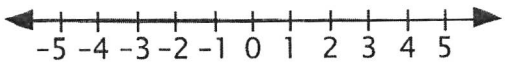
9. m = _____ b = ____

10. Y = _____

11. Plot all the values of $X > -3.5$.



12. Plot all the values of $X \leq 1\ 1/2$.



Simplify.

13. $[(7 - 3) \times 4^2 - 9] \div 3^3 =$

14. $|-4 - 2| + 8^2 - 7 \times 5 + 19 =$

15. $13^2 + 5 \div 10 =$

16. $5(9 - 2) - 6(7) + 2^3 \cdot 3 =$

Solve.

17. $2X - 5 = -X + 13$

18. $Y + 14 - 3Y = 0$

19. $-3\ 1/2\ B + 2/3 = 5\ 1/4 + 5/6\ B$

20. $2.7T + 1.09 = 5.3 - .6T$