

NAME _____

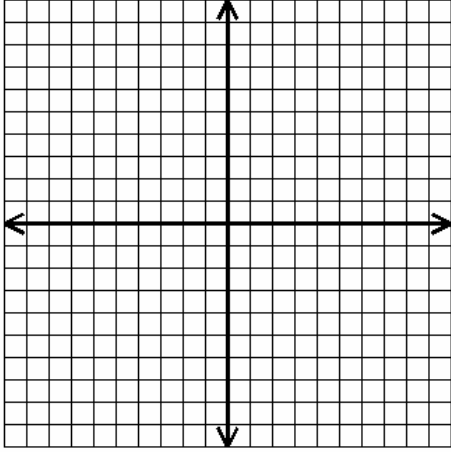
DATE _____

PER. _____

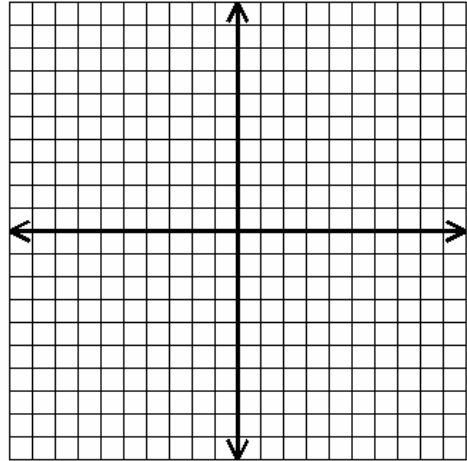
Graphing Using $y = mx + b$

Identify the slope and y-intercept of each line, then graph.

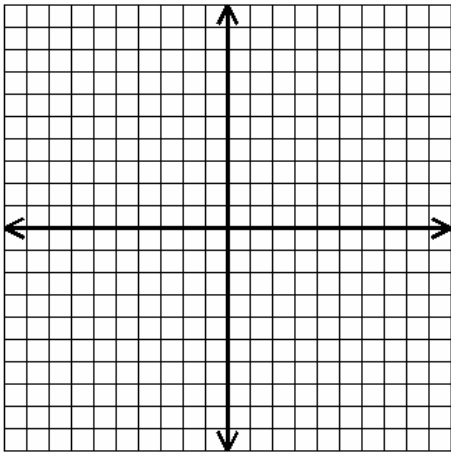
1. $y = 3x - 4$ $m =$ _____; $b =$ _____



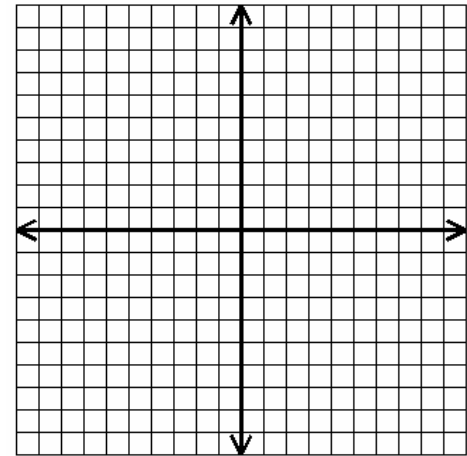
2. $y = \frac{2}{3}x + 3$ $m =$ _____; $b =$ _____



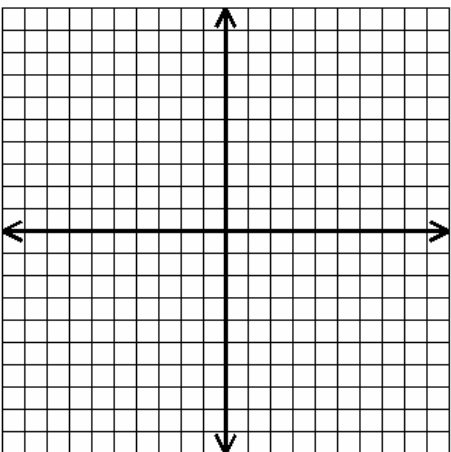
3. $y = -3x - 6$ $m =$ _____; $b =$ _____



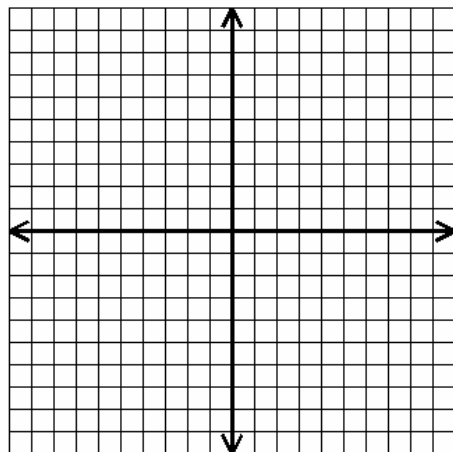
4. $y = -\frac{1}{3}x$ $m =$ _____; $b =$ _____



5. $y = -x - 4$ $m =$ _____; $b =$ _____



6. $y = 0.4x - 7$ $m =$ _____; $b =$ _____

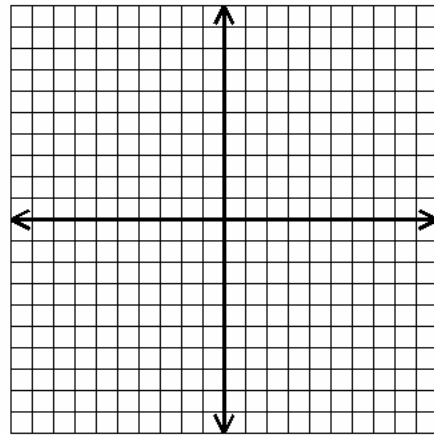


7. Graph the line that contains the point $(-5, -6)$ and has a slope of $\frac{4}{5}$.

$m =$ _____

$b =$ _____

Equation: _____



Review.

8. A bookstore offers a 30% discount on the bestselling novel from the previous week. What is the functional relationship between the regular price of the best seller and the sale price?

- A. The regular price is dependent on the sale price.
- B. The sale price is dependent on the regular price.
- C. The sale price and the regular price are dependent on each other.
- D. There is no functional relationship.

9. Julie's bank pays a 4.5% annual interest on the value of a certificate of deposit (CD). Which is the independent quantity in the functional relationship between the value of the CD and the annual interest paid?

- A. The value of the CD.
- B. The amount of interest paid.
- C. The interest rate.
- D. The bank.

10. Al's cell phone plan costs \$40.00 per month for up to 300 minutes of calls, plus 40 cents per each additional minute. The equation that represent his cell phone costs for a month in which he used more than 300 minutes is $c = 40 + 0.40(m - 300)$. Which is the independent variable?

- A. m
- B. $m - 300$
- C. c
- D. 0.40

11. A waitress at a local restaurant earns \$3.25 per hour plus tips. In two weeks she earned a total of \$720, including \$531.50 in tips. How many hours did the waitress work during this 2-week period?

- A. 58 h
- B. 82 h
- C. 94 h
- D. 111 h