

Graphing Linear Equations and Inequalities Mixed Practice

Name: _____

1) Graph: $y > -3x + 9$

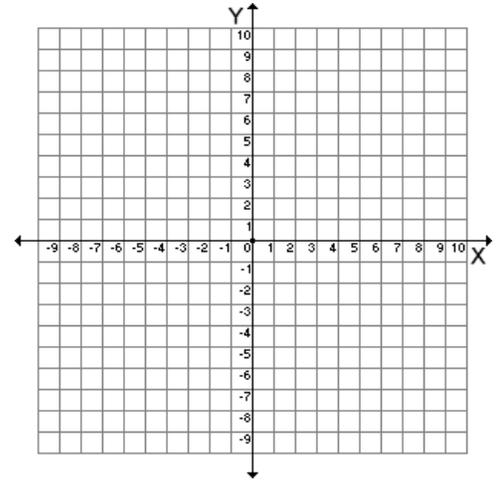
x	y

slope = _____

y-intercept = _____

choose: dotted or solid

choose: shade above or shade below



2) Graph: $y \geq 1$

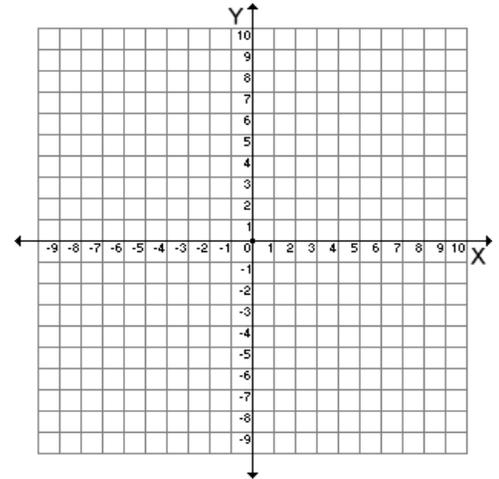
slope = _____

y-intercept = _____

choose: dotted or solid

choose: shade above or shade below

x	y



3) Graph: $y < \frac{1}{2}x - 3$

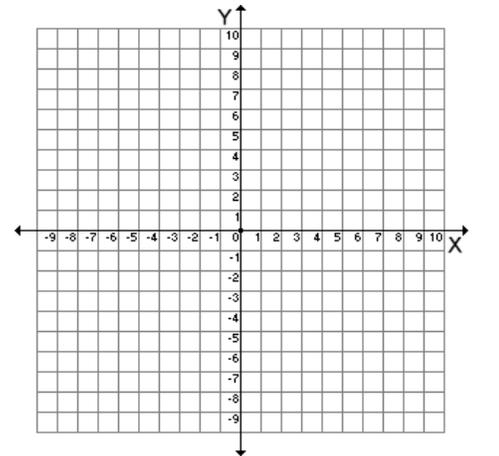
slope = _____

x	y

y-intercept = _____

choose: dotted or solid

choose: shade above or shade below



4) Write an equation of a line whose slope = $\frac{3}{2}$ and which passes through the point (8,1).

5) Write an equation of the line that passes through the points (1,9) and (-1,-3).

6) Write an equation of the line perpendicular to $y = -\frac{1}{4}x - 10$ and passes through the point (2,0).

7) Write an equation of the line parallel to $6x - 2y = -10$ and whose y-intercept = 9.

8) The Mathletes pay a \$80 flat fee plus \$15 per shirt for their Mathletes t-shirts. (Show all your work for each question in the space below.)

- Write a linear equation (in slope-intercept form) that tells us the cost (y) of shirts if we order x shirts.
- How much would it cost in all if the Mathletes order 10 shirts?
- How much would it cost in all if the Mathletes order 100 shirts?
- If they spent \$680 on shirts, how many shirts did they order?