

Coplanar lines with _____ slopes are _____.

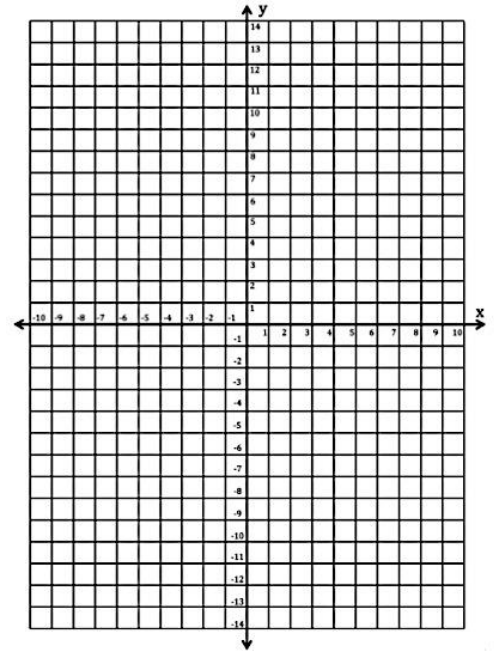
When a linear equation is written with y isolated on one side of the equal symbol, it is in the form $y = mx + b$. This is called **slope-intercept form** of a linear equation.

The **m** (the coefficient of x) is the slope of the line. The **b** is the y -intercept.

Find the slope and y -intercept of the equations below. Graph both lines on the coordinate plane.

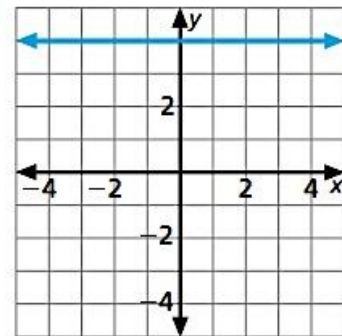
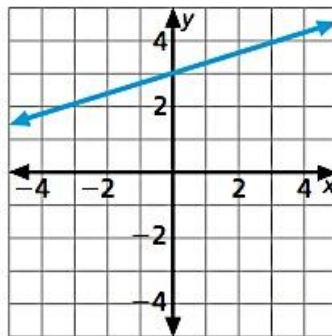
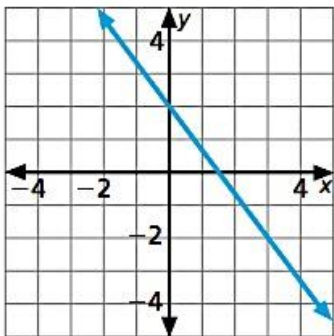
$$y = -\frac{1}{2}x + 4$$

$$y = 2x - 6$$



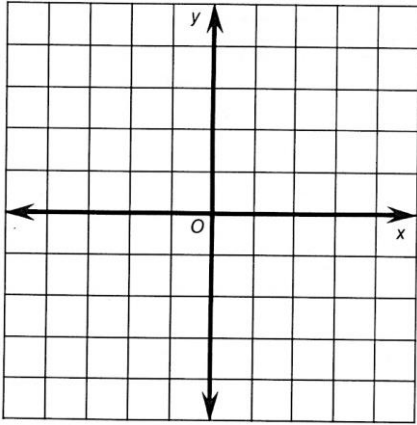
Coplanar lines with _____ slopes are _____.

Name the slope and y -intercept of each line below. Then write the linear equation in slope-intercept form.

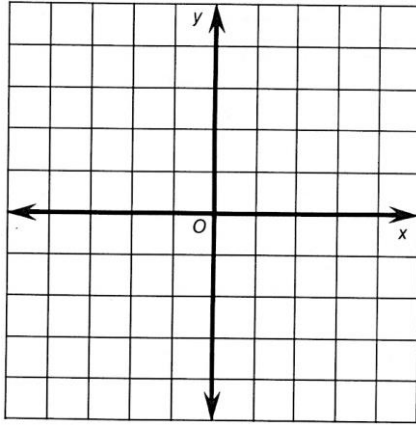


Find the slope and y-intercept of each line. Then graph the line.

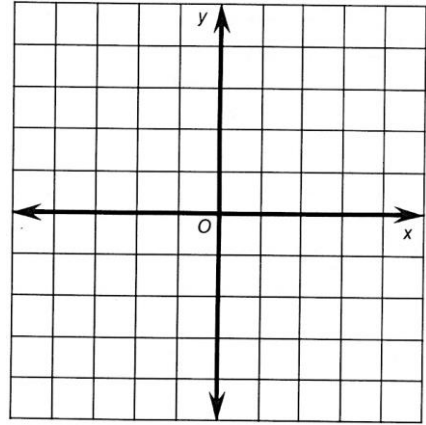
$$y = 4x + 1$$



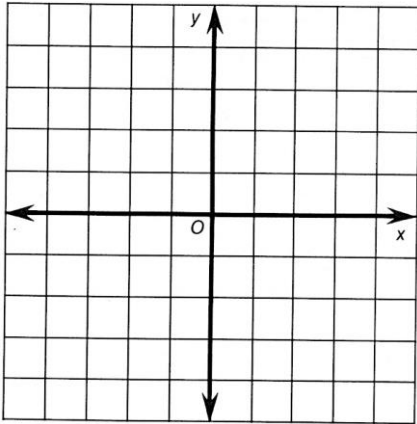
$$y = -\frac{1}{2}x - 2$$



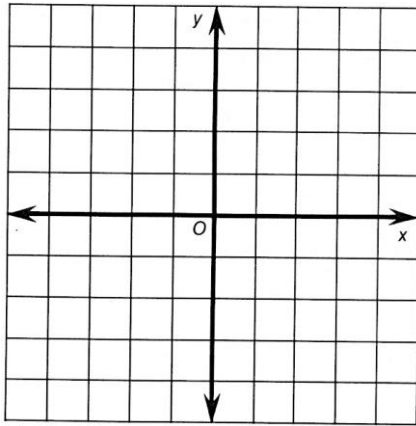
$$y = -2x - 1$$



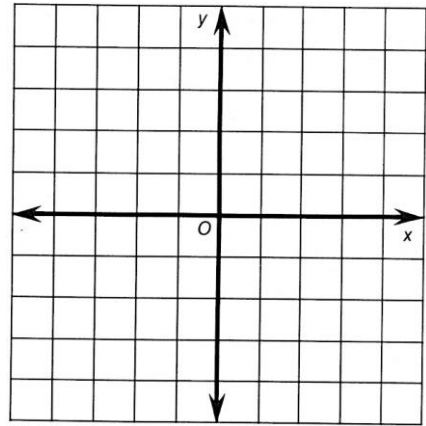
$$y = -x + 4$$



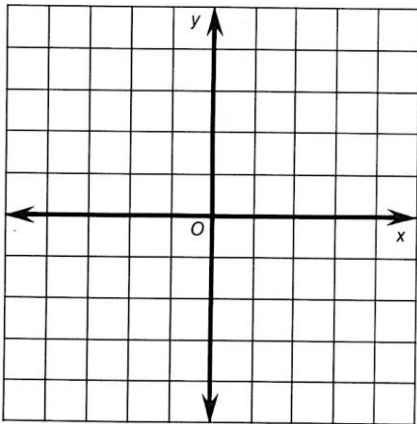
$$y = \frac{3}{2}x - 5$$



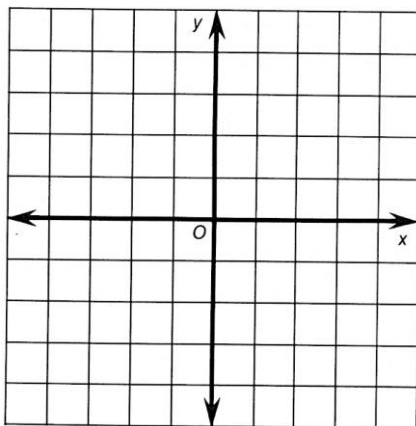
$$y = -\frac{5}{4}x + 3$$



$$y = \frac{1}{4}x - 4$$



$$y = -3x$$



$$y = 2$$

