Example: one point and slope given

Draw a line that goes through the point (8, 3) and has slope 5

y= [ ]   New

(8, 3)
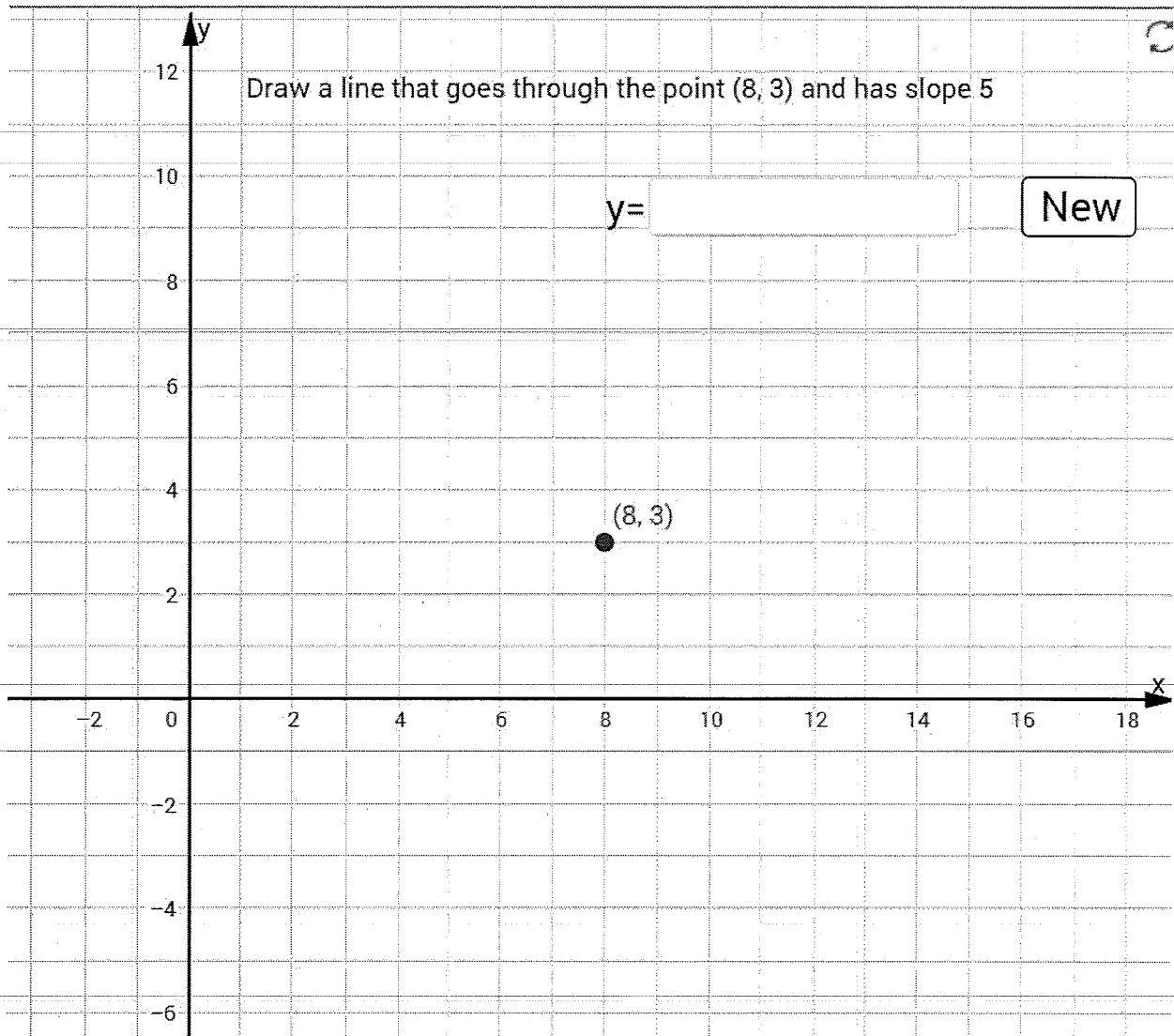
$$y - 3 = 5(x - 8)$$

$$y - 3 = 5x - 40 \qquad \text{expand}$$

$$y = 5x - 40 + 3 \qquad \text{add } 3$$

$$\boxed{y = 5x - 37}$$

Draw a line that goes through the point (8, 3) and has slope 5

y= 5x-37

New

nice!

(8, 3)