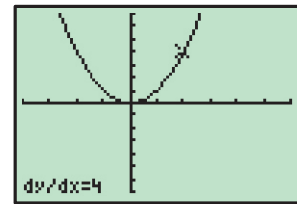


## THE TANGENT TO A FUNCTION

### TI-84 Plus

To find the gradient of the tangent to  $y = x^2$  when  $x = 2$ , we first draw the graph of  $y = x^2$ . Press **2nd** **TRACE** (**CALC**) **6:dy/dx**, then press **2** **ENTER** . The tangent has a gradient of 4 at this point.



To find the equation of the tangent, press **2nd** **PRGM** (**DRAW**) **5:Tangent**, then press **2** **ENTER** . The tangent has equation  $y = 4x - 4$ .

