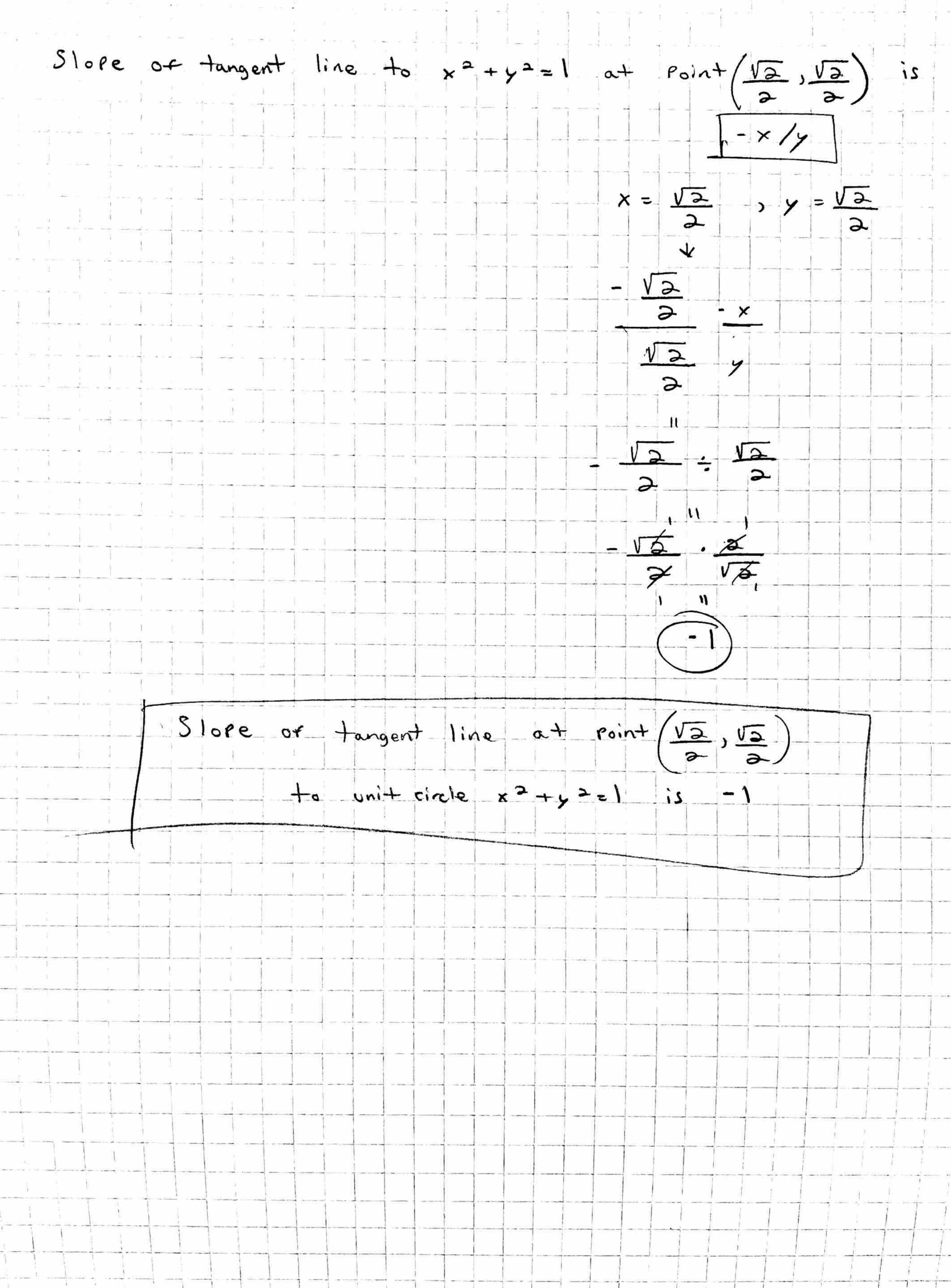
```
Example 1
x 2 + y 2 = 1
                                         and equation or tangent line to the circle at (x,y)
                                                         \left(\frac{\sqrt{2}}{2}, \sqrt{2}\right)
平 [x + x ] = 可[1]
 可[x] + 可[h] = 可[1]
                                                 This Rate of Change
                                                    Applies to Any Point on Unit Circle
               9-[2, 5] = 0
```



$$x^{2} + y^{2} = 1$$
 $(x, y) = (\sqrt{2}, \sqrt{2})$

$$x^{2} + y^{2} = 1$$
 $-x^{2}$

This Rate of Change

Applies to ordered pairs

Point
$$\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$$
 is positive in Quadrant 1 of Unit Circle so we use $|y = \sqrt{1-x^2}|$

$$f(x) = \sqrt{1-x^2}$$
 $g(x) = -x^2$

Chain It

