Tangent Lines

12/02/2024

Welcome

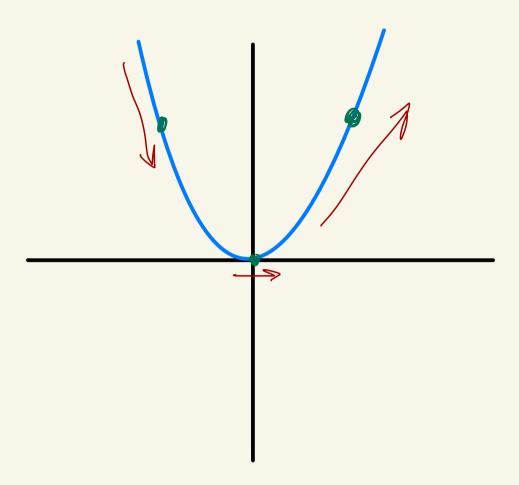
Math w/ Mak -> Tangent Lines

y = mx + 5 M=> Slope b => y-intucupt y(x) f(x) = mx+5

$$y = 2x + 0$$

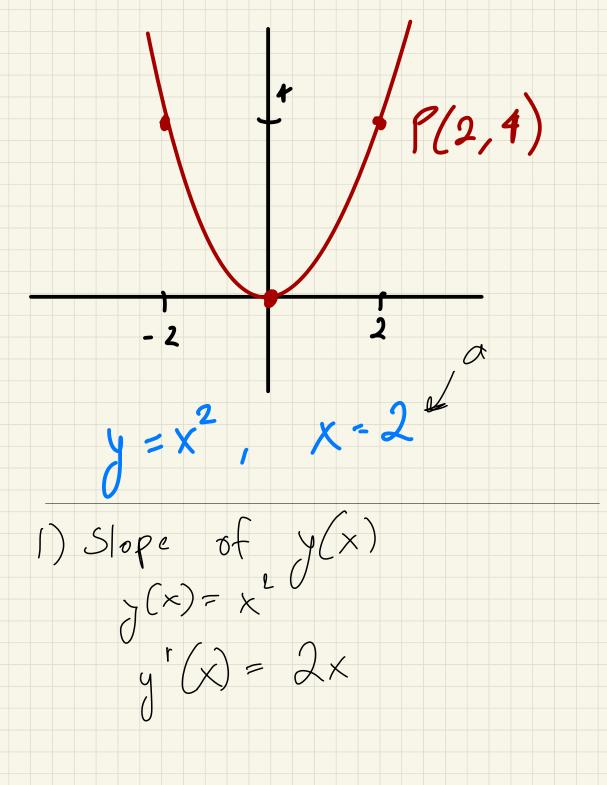
$$y = 2x$$

$$y' = 2$$



y = x y = 2x tangent Ine = f(a)f(x-a)+f(a) Slope at Boint P

y = x²



J=x², x-2
$$\frac{1}{2}$$

Slope of y(x)

y'(x) = 2x

1) at Ennn Pr. At

y(a) = 4 - b

y'(a) = 22 - 4

Slope

3) Plug In

Year = 4(x-2) + 4

$$y' = 2x$$

$$y' = 2x$$

$$y(a) = 1$$

$$y(a) = 1 = 2$$

$$y'(a) = 2$$

$$y = x^{2} + 1100$$
 $y = x^{2} + 1$
 $y = x^{2} + 1$
 $y = x^{2} + 1$
 $y = x^{2} + 1$

$$y = x^{2} + 4$$
, $x = 2$
 $y = 2x$
 $y = 2x$
 $y = 2x$

$$y'(a) = 4$$

$$y_{tan} = 4(x-2) + 8$$