

Warm-up: 1.27.22

- 1) Glue pages into INB.
- 2) Get out HW and calendar and a calculator.
- 3) On page 29 in your INB, copy the following problem and answer it. "Find the equation of the tangent line to $f(x) = x^2 + 5x + 6$ at $x = -4$."

Hint!! Use your derivative from page 28.

$$1. \text{ slope} = f'(x) = 2x + 5 = 2(-4) + 5$$

$$2. \text{ point} = f(-4) = 2 = -3$$

$(-4, 2)$

$$y - 2 = -3(x - (-4))$$

$$y - 2 = -3x - 12$$

$$y = -3x - 10$$