

$$= \frac{-2-6}{4+3}$$

$$= \frac{-8}{7}$$

$$\frac{dy}{dx} = -\frac{8}{7}$$

$$m = -\frac{8}{7}$$

Eqn of tangent

$$y - y_1 = m(x - x_1)$$

$$y - 2 = -\frac{8}{7}(x - 1)$$

$$7y - 14 = -8x + 8$$

Eqn of normal

$$y - y_1 = \frac{-1}{m}(x - x_1)$$

$$y - 2 = \frac{-1}{-8/7}(x - 1)$$

$$y - 2 = \frac{7}{8}(x - 1)$$

$$8y - 16 = 7x - 7$$

$$8y - 7x - 9 = 0$$