

$$\begin{cases} x = \frac{t^2}{t^2 + 4} & \left\{ \begin{array}{l} \frac{dx}{dt} = \frac{2t * (t^2 + 4) - t^2 * 2t}{(t^2 + 4)^2} \\ \frac{dy}{dt} = \frac{1 * (t^2 + 4) - t * 2t}{(t^2 + 4)^2} \end{array} \right. \\ y = \frac{t}{t^2 + 4} \end{cases}$$

$$3x + 8y = 1$$

$$y = -3x/8 + 1/8$$

$$k = -3/8 = \frac{dy}{dt} : \frac{dx}{dt} = \frac{1 * (t^2 + 4) - t * 2t}{(t^2 + 4)^2} : \frac{2t * (t^2 + 4) - t^2 * 2t}{(t^2 + 4)^2}$$

$$-\frac{3}{8} = \frac{1 * (t^2 + 4) - t * 2t}{2t * (t^2 + 4) - t^2 * 2t} = \frac{-t^2 + 4}{8t}$$

$$24t = 8t^2 - 32$$

$$t^2 - 3t - 4 = 0$$

$$t_1 = -1;$$

$$x_1 = \frac{1}{5} = 0,2;$$

$$y_1 = -\frac{1}{5} = -0,2;$$

$$y - y_1 = k * (x - x_1);$$

$$y = y_1 + k * (x - x_1) = -0,2 - 3/8 * (x - 0,2)$$

$$8y = -1,6 - 3x + 0,6$$

$$8y = -1 - 3x$$

$$t_2 = 4;$$

$$x_2 = \frac{16}{20} = 0,8;$$

$$y_2 = \frac{4}{20} = 0,2;$$

$$y - y_2 = k * (x - x_2)$$

$$y = y_2 + k * (x - x_2) = 0,2 - 3/8 * (x - 0,8)$$

$$8y = 1,6 - 3x + 2,4$$

$$8y = 4 - 3x$$