

Answer on Question #73847 – Math – Calculus

Question

$$x = t^{1/2} + 5, \quad y = 2t - 6$$

Solution

$$\begin{cases} x = t^{1/2} + 5 \\ y = 2t - 6 \end{cases}$$

$$t = (x - 5)^2$$

$$y = 2(x - 5)^2 - 6 = 2(x^2 - 10x + 25) - 6$$

$$y = 2x^2 - 20x + 50 - 6 = 2x^2 - 20x + 44$$

Answer: $y = 2x^2 - 20x + 44$.