

1. Find the equation for the line that is tangent to the curve $y = x^3 - 3x^2 + 4$ at the point $(1, 1)$. Show all of your work. Label what you are calculating.

$$\text{Slope of tangent line} = \left. \frac{dy}{dx} \right|_{x=1} = 3(1)^2 - 6(1) = 3 - 6 = -3$$

at $(1, 1)$

$$\frac{dy}{dx} = 3x^2 - 6x$$

$$\begin{aligned} \text{Equation of line: } y - y_1 &= m(x - x_1) \\ y - 1 &= -3(x - 1) \\ y + 1 &= -3x + 3 \\ y &= -3x + 3 \end{aligned}$$

The equation of the line that is tangent to $y = x^3 - 3x^2 + 4$ at the point $(1, 1)$ is $y = -3x + 3$.

2. The temperature of a person during an illness is given by $T(t) = \frac{100 - 10t^2}{t^2 + 4}$, where T is in degrees Fahrenheit, t is time, in hours, since the onset of the illness. The derivative function is $T'(t) = \frac{40 - 20t^2}{t^2 + 4}$.

- Find $T(0)$. Does your work and interpret your answer.
- Find $T'(0)$. Does your work and interpret your answer.

$$\textcircled{a} T(0) = \frac{100 - 10(0)}{0^2 + 4} = \frac{100}{4} = 100.0^\circ$$

One hour after the onset of the disease, the person's temperature will be 100.0° .

$$\textcircled{b} T'(0) = \frac{40 - 10(0)^2}{(0^2 + 4)^2} = \frac{40 - 0}{16} = \frac{40}{16} = \frac{5}{2} = 2.50$$

One hour after the onset of the disease, the person's temperature will be increasing at a rate of 2.5° per hour.

Algebra 1 Pace 1106 Test Answers

Kathleen Armour

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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