

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.

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

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

Equation of line: $y - y_1 = m(x - x_1)$
 $y - 1 = -3(x - 1)$
 $y + 1 = -3x + 3$
 $y = -3x + 2$

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

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, after the onset of the illness. The derivative function is $T'(t) = \frac{40 - 10t^2}{t^2 + 4}$.

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

③ $T(0) = \frac{100 - 10(0)}{(0)^2 + 4} = \frac{100}{4} = 25$

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

④ $T'(0) = \frac{40 - 10(0)^2}{(0)^2 + 4} = \frac{40 - 0}{4} = \frac{40}{4} = 10$

One hour after the onset of the disease, the person's temperature will be increasing at a rate of 10° per hour.

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