

There are a variety of derivative problems. In all problems a function $y = f(x)$ is first differentiated and the resulting differentiation is then applied to the problem.

Example 1

For the parabola $y = x^2 - 3x + 5$ it is given that $\frac{dy}{dx} = 2x - 3$. Find the coordinates of the point on the parabola at which the tangent is inclined at 135° to the x -axis.

Example 1 solution

$$\frac{dy}{dx} = m = \tan \theta$$

$$m = \tan 135^\circ = -1$$

$$\therefore \frac{dy}{dx} = -1$$

$$2x - 3 = -1 \rightarrow x = 1$$

$$y = (1)^2 - 3 \times 1 + 5 = 3$$

\therefore the coordinates are $(1, 3)$

Example 2

The parabolas $y = x^2 + bx + c$ and $y = 4x - x^2$ have a common tangent at the point $(3, 3)$. Find the values of b and c .

Example 2 solution

$$\text{For } y = x^2 + bx + c$$

$$\frac{dy}{dx} = 2x + b$$

$$\text{At } x = 3, \frac{dy}{dx} = 6 + b$$

$$\text{For } y = 4x - x^2$$

$$\frac{dy}{dx} = 4 - 2x$$

$$\text{At } x = 3, \frac{dy}{dx} = 4 - 6 = -2$$

$$\therefore 6 + b = -2 \text{ (common tangent)}$$

$$b = -8$$

$$y = x^2 + bx + c$$

$$3 = 9 - 8 \times 3 + c$$

$$\therefore c = 18$$

$$\therefore b = -8, c = 18$$

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