

7.1 - CONCEPTS

DERIVATIVES →

Finding the gradient / rate of change of a straight line is quite simple, and you will find a numerical value which stays the same.



But with a curved line such as $y = x^2$ or $y = 5x^2$, the gradient is different at different points. Finding derivatives means that you find a 'gradient function', i.e. you can plug in the x -coordinate and it will produce a gradient.

These are examples of **tangents**. This is basically what the derivative will measure the gradient of.

7.2 - BASIC DERIVATIVES

POWER RULE →

$$f(x) = ax^n \Rightarrow f'(x) = nax^{n-1}$$

$$y = ax^n \Rightarrow \frac{dy}{dx} = nax^{n-1}$$

→ There are two ways of saying the same thing.

$$\text{Ex: } f(x) = 5x^2 \Rightarrow f'(x) = 10x \quad \text{Ex: } y = x^2 - 2x \Rightarrow \frac{dy}{dx} = 2x - 2$$

Here, we see how basic can be combined.

7.3 - GRADIENTS AT A POINT

DERIVATIVE →

Once we have the derivative, you just need to plug in the x -value to find the gradient at that point.

$$\text{Ex: } \text{Find the gradient of } y = 3x^2 \text{ at } x = -2: \Rightarrow \frac{dy}{dx} = 6x = 6(-2) = -12$$

TANGENT →

TANGENT →

Once we have the gradient of the tangent, we can find an equation of the line.

$$\text{Tangent with grad } = m, \text{ passing through } (a, b) \Rightarrow y - b = m(x - a)$$

$$\text{Ex: } \text{From above) } m = -12, \text{ through } (-2, 12) \Rightarrow y - 12 = -12(x + 2) \\ y = -12x - 12$$

NORMAL →

NORMAL →

The **normal** is a line perpendicular to the tangent. It has grad $= \frac{1}{m}$. The $y - b = \frac{1}{m}(x - a)$ technique applies here as well.

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