

# Differentiation

times then minus

$$y = 3x^4 + 5x - 2$$

$$\frac{dy}{dx} = 12x^3 + 5$$

$\frac{dy}{dx}$  is the tangent's gradient

For the normal: flip and minus

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# Integration

Add then divide (don't forget to plus c!)

$$\frac{dy}{dx} = 12x^3 + 5$$

$$y = 3x^4 + 5x + c$$