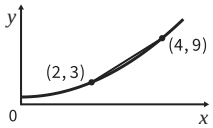
Rates of Change on Curves *ramp up*

a $y = x^2$.
Find the average rate of change from $x = 1$ to $x = 3$

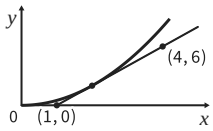
b Find the chord's gradient



c $y = 20 - x^2$.
Find the average rate of change from $x = 1$ to $x = 3$

d $y = x^3$.
Find the average rate of change from $x = -1$ to $x = 2$

e Find the tangent's gradient



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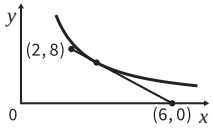
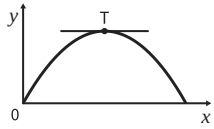
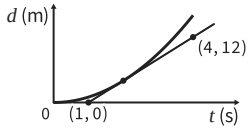


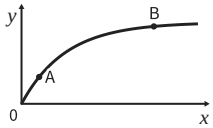
g Find the gradient at T



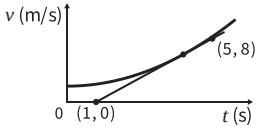
h Find the speed at $t = 2$



i Is the rate greater at A or B?



j Find the acceleration at $t = 4$



k $y = x^2$.
Find the average rate of change from $x = 3$ to $x = 3.1$

l $y = \frac{1}{x}$.
Find the average rate of change from $x = 1$ to $x = 4$

The Maths Habit

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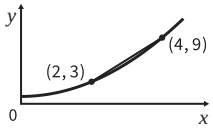

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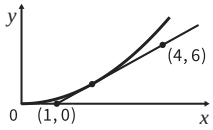

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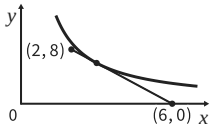

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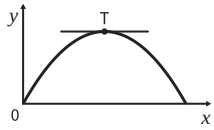

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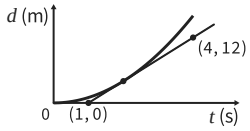

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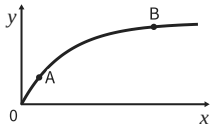

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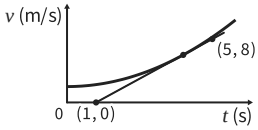

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