



Air maths tuition

Interact, engage and perform

## functions - $f(x)$ notation

<p>If <math>y = 2x + 3</math> when <math>x = 5</math> <math>\therefore y = 2(5) + 3</math> <math>= 13</math></p> <p><u>Alternative notation</u></p> <p><math>f(x) = 2x + 3</math> <math>\therefore f(5) = 2(5) + 3</math> <math>= 13</math></p> <p>also</p> <p><math>f(a) = 2a + 3</math></p> <p><math>f(x+1) = 2(x+1) + 3</math> <math>= 2x + 2 + 3</math> <math>= 2x + 5</math></p> <p><math>5f(x) = 5(2x + 3)</math> <math>= 10x + 15</math></p>	<p><math>s = t^2 - 2t + 1</math></p> <p><math>g(t) = t^2 - 2t + 1</math> <math>\therefore g(3t) = (3t)^2 - 2(3t) + 1</math> <math>= 9t^2 - 6t + 1</math></p> <p><math>\therefore -g(t) = -(t^2 - 2t + 1)</math> <math>= -t^2 + 2t - 1</math></p> <p><math>g(-t) = (-t)^2 - 2(-t) + 1</math> <math>= t^2 + 2t + 1</math></p>
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