



Air maths tuition

Interact, engage and perform

Functions - $f(x)$ notation

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