

Functions - (extreme) basics!

$$\text{eg } f(x) = 2x^2 - 7x + 5$$

$$f(0) = 2(0)^2 - 7(0) + 5 = 5$$

$$f(-1) = 2(-1)^2 - 7(-1) + 5 = 14$$

ie, Just replace  $x$  with a  $\#$  on each side.

$$\text{eg } g(x) = \sqrt{x} + \cos(x^2)$$

$$g(\sqrt{\pi}) = \sqrt{\sqrt{\pi}} + \cos(\sqrt{\pi}^2) = \sqrt{\sqrt{\pi}} + \cos(\pi)$$

$$= \pi^{1/4} - 1$$