



Air maths tuition

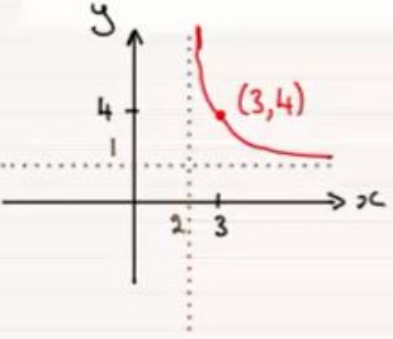
Interact, engage and perform

Domain & Range |Past Paper Question|C3 Edexcel June 2014 Q5(b)

$$g(x) = \frac{x}{x+3} + \frac{3(2x+1)}{x^2+x-6}, \quad x > 3$$

(a) Show that $g(x) = \frac{x+1}{x-2}, \quad x > 3$ (4)

(b) Find the range of g . (2)



$$g(x) = \frac{x+1}{x-2} = \frac{1 + \frac{1}{x}}{1 - \frac{2}{x}}$$

as $x \rightarrow \infty$, $g(x) \rightarrow \frac{1}{1} = 1$

when $x = 3$, $g(3) = 4$

\therefore range $1 < g(x) < 4$

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