Name: _____ 5-a-day Further Maths

18th September

Corbettmaths

Rationalise the denominator

$$\frac{9-\sqrt{3}}{\sqrt{3}+1}$$

$g(x) = x^3 - 4$ for $-3 \leq x \leq 1$

Work out the range of $g(x)$

Solve the inequality $x^2 + 6x + 1 < 0$

Leave your answer in surd form.

Solve

$3cos^2x + 7cosx = sin^2x - 4$

for $0° < x < 360°$