18th September	Higher Plus 5-a-day

Corbettmaths

Simplify

$\left(27x^{12}\right)^{\frac{2}{3}}$

C and D are independent events.

$P(C') = 0.4$
$P(D) = 0.25$

Find $P(C \cap D)$

$f(x) = 8 - 3x$
$g(x) = 4x$

Calculate the value of
$gf(3)$

Sasha says that $(x-2)(5x-1)^2$ expands to give

$25x^3 - 60x^2 + 21x + 2$

Explain why Sasha must be wrong.

Simplify

$$\frac{3}{\sqrt{2} + \frac{1}{\sqrt{2}}}$$