


19th March	
Expand and simplify $(x - 4)^3$	 Corbettmaths $x^3 - 12x^2 + 48x - 64$
Write as a fraction $1.2\dot{6}$ $x = 1.26666\dots$ $10x = 12.6666\dots$ $100x = 126.6666\dots$	$90x = 114$ $x = \frac{114}{90} = \frac{19}{15}$
Write as a single fraction $\frac{1}{x+1} + \frac{4}{x-2}$ $\frac{x-2}{(x+1)(x-2)} + \frac{4x+4}{(x+1)(x-2)}$	$\frac{5x+2}{(x+1)(x-2)}$
A sequence has an nth term of $\frac{n+11}{6n-12}$ Which term in the sequence has a value of $\frac{1}{3}$	$\frac{n+11}{6n-12} = \frac{1}{3}$ $3(n+11) = 6n-12$ $3n+33 = 6n-12$ $45 = 3n \quad n = 15$
Write down the exact value of $\tan 30^\circ + \tan 60^\circ$ $\frac{\sqrt{3}}{3} + \frac{\sqrt{3}}{1}$	$\frac{\sqrt{3}}{3} + \frac{3\sqrt{3}}{3}$ $= \frac{4\sqrt{3}}{3}$