Name: _____   **5-a-day**   Further Maths

4th June	Corbettmaths
The nth term of a sequence is $$\frac{3n}{7n-8}$$ Write down the limiting value of the sequence $n \rightarrow \infty$	
Solve $$x^{-\frac{2}{5}} = 1\frac{7}{9}$$	
Work out the values of x between $0°$ and $360°$ for which $$9cosx + 4sinx = 0$$	
The transformation matrix **M** is $$\begin{pmatrix} 3 & a \\ -1 & 2 \end{pmatrix}$$ The image of the point $(b, \ -2)$ under **M** is $(26, \ -10)$ Find a and b	
Work out the equation of the tangent to the curve $y = \dfrac{2}{x}$ at the point $(8, \dfrac{1}{4})$	