| 12th February Higher Plus 5-a-day |  |
| :---: | :---: |
| Make a the subject $\frac{1}{a}-\frac{1}{b}=\frac{1}{c}$ | Corbettmoths |
| Solve $x^{2}-4 x-11=0$ <br> using completing the square. |  |
| Here are the first 5 terms of a quadratic sequence <br> $\begin{array}{lllll}9 & 17 & 29 & 45 & 65\end{array}$ <br> Find an expression, in terms of $n$, for the nth term of this quadratic sequence. |  |
|  | $\begin{aligned} & \mathrm{DE}=\mathrm{DF}=\mathrm{FG} \\ & \angle F D G=\theta \\ & \text { Prove that } \angle E D F=180-4 \theta \end{aligned}$ |
| The minimum point of a quadratic graph in the form $y=x^{2}+a x+b$ is $(6,3)$. <br> Find a and b . |  |

