7 Solutions to this question by accurate drawing will not be accepted.

Find the x-coordinates of the points where the curve $y = (2x-9)\left(x^2+5\right)+42$ cuts the x-axis. [6]

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8 **(a)** Write down the set of values of x for which $\log_5(12x-4)$ exists. [1]

(b) Solve the equation $\log_5(12x-4) = \frac{6}{\log_x 125} + 1$. [6]

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