7 DO NOT USE A CALCULATOR IN THIS QUESTION.

$$\mathrm{p}(x) = 2x^3 - 3x^2 - 23x + 12$$

(a) Find the value of $\mathrm{p}\left(\frac{1}{2}\right)$. [1]

(b) Write $\mathrm{p}(x)$ as the product of three linear factors and hence solve $\mathrm{p}(x) = 0$. [5]

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