

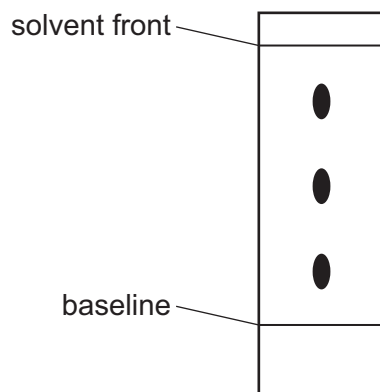








- (c) A colourless mixture of amino acids was separated by chromatography. Amino acid **X** has an  $R_f$  value of 0.8. The chromatogram of the mixture after treatment with a locating agent is shown.



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- (i) How is an  $R_f$  value calculated?

$$R_f =$$

[1]

- (ii) On the diagram put a ring around the spot caused by amino acid **X**.

[1]