



| 2nd July | | Corbettmaths  |
|---|-------------------------------------|---|
| $(x + a)^2(x - 2) \equiv x^3 + bx^2 + 12x - 72$ Find the values of a and b | | |
| $f(x) = x^2 + 2x + 1$ Show that $f(x + 2) - f(x) = 4x + 8$ | | |
| Liquid A has a density of 0.7g/cm ³ Liquid B has a density of 1.5g/cm ³ Liquid C has a density of 1.25g/cm ³ 200g of liquid A, 1kg of liquid B and 500g of liquid C are mixed to make liquid D. | Work out the density of liquid D | |
| One solution of a quadratic equation in the form $y = ax^2 + bx + c$ is $x = \frac{3 + \sqrt{65}}{4}$ | Find possible values of a, b and c. | |
| Prove the angles in a triangle add up to 180°. | | |

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