




Air maths tuition

Interact, engage and perform

Factorising Extended Quadratic Trinomials

Factorise $x^4 - 3x^2 - 10$, $2a + \sqrt{a} - 21$

$$\begin{array}{l|l} x^4 - 3x^2 - 10 \equiv (x^2)^2 - 3x^2 - 10 & y^2 - 3y - 10 \\ \equiv (x^2 - 5)(x^2 + 2) & \equiv (y - 5)(y + 2) \end{array}$$
$$\begin{array}{l|l} 2a + \sqrt{a} - 21 \equiv 2(\sqrt{a})^2 + \sqrt{a} - 21 & 2y^2 + y - 21 \\ \equiv (2\sqrt{a} + 7)(\sqrt{a} - 3) & \equiv (2y + 7)(y - 3) \end{array}$$


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