



Air maths tuition

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## Quadratic Equations in some function of x

$$\text{Solve } 3x^{2/3} - 5x^{1/3} + 2 = 0$$

$$\text{let } y = x^{1/3}$$

$$\therefore 3y^2 - 5y + 2 = 0$$

$$\therefore (3y-2)(y-1) = 0 \quad \text{or} \quad (3x^{1/3}-2)(x^{1/3}-1) = 0$$

$$\therefore 3y-2=0 \quad \text{or} \quad y-1=0$$

$$\therefore y = \frac{2}{3} \quad \text{or} \quad y = 1$$

$$\therefore x^{1/3} = \frac{2}{3} \quad \text{or} \quad x^{1/3} = 1$$

$$\therefore x = \left(\frac{2}{3}\right)^3 = \frac{8}{27} \quad \text{or} \quad x = 1$$



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