

ALGEBRA (Q 1 & 2, PAPER 1)

LESSON NO. 5: CUBIC EQUATIONS

2005

2 (b) The cubic equation $4x^3 + 10x^2 - 7x - 3 = 0$ has one integer root and two irrational roots. Express the irrational roots in simplest surd form.

2002

1 (b) The cubic equation $x^3 - 4x^2 + 9x - 10 = 0$ has one integer root and two complex roots. Find the three roots.

ANSWERS

2005 2 (b) $\frac{1 \pm \sqrt{5}}{4}$

2002 1 (b) $2, 1 \pm 2i$