



3 of 8

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3PM

ACHA3000

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i) $x^2 + 10x + 21 = 0$

$$(x+7)(x+3) = 0$$

$$x \times x = x^2$$

$$x \times 3 = 3x$$

$$7 \times x = 7x$$

$$7 \times 3 = 21$$

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$$x+7=0$$

$$x+3=0$$

$$\underline{x=-7}$$

$$\underline{x=-3}$$

ii) $x^2 - 3x + 2 = 0$

$$(x-1)(x-2) = 0$$

$$x \times x = x^2$$

$$-1 \times x = -x$$

$$x \times -2 = -2x$$

$$-1 \times -2 = 2$$

$$x-1=0$$

$$x-2=0$$