



4 of 8

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3PM

ACHA3000

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(iii) $x^2 + 12x + 20 = 0$

$$(x+10)(x+2) = 0$$

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

$$10 \times x = 10x$$

$$x \times 2 = 2x$$

$$2 \times 10 \times 2 = 20$$

$$x+10=0$$

$$x+2=0$$

$$\underline{\underline{x = -10}}$$

$$\underline{\underline{x = -2}}$$

(iv) $x^2 - 64 = 0$

$$(x+8)(x-8) = 0$$

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

$$8 \times 8 = 8x$$

$$x \times -8 = -8x$$

$$8 \times -8 = -64$$

$$x+8=0$$

$$x-8=0$$

$$\underline{\underline{x = -8}}$$

$$\underline{\underline{x = 8}}$$