

Q3)

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

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

$x+3=0$ or $x+7=0$

$x = -3$ or $x = -7$

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

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

$x = 1$ or $x = 2$

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

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

$x = -2$ or $x = -10$

iv) $x^2 - 64 = 0$

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

$x = 8$ or $x = -8$

v) $2x^2 + 9x + 10 = 0$

Q4) $14x^2 + 3x = 11$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$a = 14$ $b = 3$ $c = -11$

$$\frac{-3 \pm \sqrt{3^2 - 4 \times 14 \times -11}}{2 \times 14}$$

$$x = \frac{-3 + \sqrt{625}}{28} =$$

$$x = \frac{-3 - \sqrt{625}}{28} =$$

$x = -1$

or

$x = 0.79$