

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

$$(x-8)(x+8)$$

$$x^2 - 64 = 0$$

$$x = 8 \quad x = -8$$

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

$$(2x+5)(x+2) = 0$$

$$2x+5=0$$

$$x+2=0$$

$$x = -\frac{5}{2}$$

$$2$$

$$x = -2$$

$$x = -2.5$$

4.

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

$$14x^2 + 3x - 11 = 0$$

$$x = \frac{-3 \pm \sqrt{3^2 - 4(14)(-11)}}{2(14)} = \frac{-3 \pm \sqrt{625}}{28}$$

$$x = \frac{-3 + \sqrt{9 - 625}}{28}$$

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

$$x = \frac{-3 - \sqrt{3^2 - 4(14)(-11)}}{2(14)}$$

$$:1$$

$$x = \frac{-3 + 25}{28} = \frac{22}{28} = \frac{11}{14}$$

$$x = \frac{11}{14} \quad x = -1$$