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$$IV) x^2 - 64 = 0 \quad \sqrt[3]{64} = 8$$

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

$$x^2 - 8x + 8x - 64 = 0$$

$$x - 8 = 0 \quad x + 8 = 0$$

$$\boxed{x = +8 \quad x = -8}$$

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

$$1 \times 10$$

$$2 \times 5$$

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

$$10 \times 1$$

$$5 \times 2$$

$$2x^2 + 10x + 2x + 10 = 0 \quad \times$$

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

$$2x^2 + 4x + 5x + 10 = 0$$

$$2x+5=0$$

$$x+2=0$$

$$2x = -5$$

$$x = -2$$

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