

# الجذور التربيعية

$$\sqrt{ab} = \sqrt{a}\sqrt{b}$$

$$\sqrt{27} = \sqrt{9}\sqrt{3} = 3\sqrt{3}$$

$$\sqrt{50} = \sqrt{25}\sqrt{2} = 5\sqrt{2}$$

$$\sqrt{28} = \sqrt{4}\sqrt{7} = 2\sqrt{7}$$



$$2\sqrt{18} = 2\sqrt{9}\sqrt{2} = 2 \times 3\sqrt{2} = 6\sqrt{2}$$

$$5\sqrt{12} = 5\sqrt{4}\sqrt{3} = 5 \times 2\sqrt{3} = 10\sqrt{3}$$

$$4\sqrt{50} = 4\sqrt{25}\sqrt{2} = 4 \times 5\sqrt{2} = 20\sqrt{2}$$



$$A = \sqrt{32} - 2\sqrt{50} + \sqrt{128}$$

$$= \sqrt{16}\sqrt{2} - 2\sqrt{25}\sqrt{2} + \sqrt{64}\sqrt{2}$$

$$= 4\sqrt{2} - 10\sqrt{2} + 8\sqrt{2} = 2\sqrt{2}$$

$$B = \sqrt{48} + 2\sqrt{75} - 3\sqrt{27}$$

$$= \sqrt{16}\sqrt{3} + 2\sqrt{25}\sqrt{3} - 3\sqrt{9}\sqrt{3}$$

$$= 4\sqrt{3} + 10\sqrt{3} - 9\sqrt{3} = 5\sqrt{3}$$

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