

● Kuy Coba :

$$5\sqrt{3} + \sqrt{3} = \dots$$

$$2\sqrt{3} - 6\sqrt{3} = \dots$$

$$\sqrt{18} + \sqrt{2} = \dots$$

$$\sqrt{27} - 5\sqrt{3} + \sqrt{12} = \dots$$

Perkalian Bentuk Akar

- Untuk a, b bilangan rasional non negatif , c, d bilangan real berlaku :

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

$$\sqrt{a}.\sqrt{a} = a$$

$$c\sqrt{a}.d\sqrt{b} = cd\sqrt{ab}$$

● Perhatikan Contoh Berikut :

$$\sqrt{2} \times \sqrt{3} = \sqrt{2.3} = \sqrt{6}$$

$$\sqrt{5} \times \sqrt{5} = \sqrt{25} = 5$$

$$2\sqrt{5} \times 3\sqrt{7} = 2.3\sqrt{5.7} = 6\sqrt{35}$$

$$\sqrt{5} \times (3 - 2\sqrt{5}) = 3\sqrt{5} - \dots\sqrt{25} = 3\sqrt{5} - \dots$$

● Kuy Coba :

$$\sqrt{5} \times \sqrt{2} = \dots$$

$$\sqrt{5} \times \sqrt{6} = \dots$$

$$2\sqrt{3} \times \sqrt{3} = \dots$$

$$5\sqrt{2} \times 3\sqrt{2} = \dots$$

$$3\sqrt{2} \times 4\sqrt{5} = \dots$$

$$\sqrt{3} \times (\sqrt{2} - \sqrt{3}) = \dots$$

$$2 \times (3 - 5\sqrt{3}) = \dots$$

Pembagian Bentuk Akar

Untuk a, b bilangan real non negatif berlaku ;

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

Contoh:

$$\frac{\sqrt{15}}{\sqrt{3}} = \sqrt{\frac{15}{3}} = \sqrt{5}$$

$$\frac{\sqrt{16}}{\sqrt{2}} = \sqrt{\frac{16}{\dots}} = \sqrt{\dots} = 2\sqrt{\dots}$$

$$\frac{\sqrt{48}}{\sqrt{3}} = \sqrt{\frac{\dots}{3}} = \sqrt{\dots} = \dots$$