



WORKSHEET 02

MATHEMATICS - SMP GLOBAL ISLAMIC BOARDING SCHOOL

NAME :

SUBJECT : Mathematics

CLASS :

TOPIC : Operasi Bentuk Akar

SIFAT-SIFAT BENTUK AKAR

1. $a\sqrt{c} + b\sqrt{c} = (a + b)\sqrt{c}$

2. $a\sqrt{c} - b\sqrt{c} = (a - b)\sqrt{c}$

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

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

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

6. $a \times b\sqrt{c} = ab\sqrt{c}$

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

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

9. $\frac{a\sqrt{c}}{b\sqrt{d}} = \frac{a}{b} \sqrt{\frac{c}{d}}$

Tentukan hasil penjumlahan dan pengurangan akar di bawah ini!

1. $\sqrt{7} + \sqrt{7} =$

2. $3\sqrt{5} + 2\sqrt{5} =$

3. $2\sqrt{4} + \sqrt{4} =$

4. $2\sqrt{3} - \sqrt{3} =$

5. $8\sqrt{3} - 5\sqrt{7} =$

6. $4\sqrt{3} - 2\sqrt{3} + 2\sqrt{3} =$

7. $8\sqrt{3} + \sqrt{3} - 10\sqrt{2} =$

8. $10\sqrt{3} - 2\sqrt{3} - 4\sqrt{3} + 2\sqrt{2} + \sqrt{2} =$

$2\sqrt{7}$

$\sqrt{14}$

$5\sqrt{5}$

$3\sqrt{4}$

$4\sqrt{3}$

$\sqrt{3}$

$4\sqrt{3} + 3\sqrt{2}$

$8\sqrt{3} - 5\sqrt{7}$

$9\sqrt{3} - 10\sqrt{2}$