

Somme de Radicaux - Exercices

Effectue et rends formel.

1 $\sqrt{405} + \sqrt{126} =$

2 $4\sqrt{90} - 6\sqrt{250} =$

3 $\sqrt{250} - \sqrt{160} =$

4 $10\sqrt{44} + 3\sqrt{539} =$

5 $2\sqrt{63} + 4\sqrt{252} =$

6 $\sqrt{320} + \sqrt{96} =$

7 $-10\sqrt{176} - 3\sqrt{99} =$

8 $\sqrt{245} - \sqrt{275} =$

9 $\sqrt{216} - \sqrt{486} =$

10 $7\sqrt{486} - 3\sqrt{605} =$

11 $9\sqrt{160} + 3\sqrt{242} =$

12 $\sqrt{28} + \sqrt{1008} =$

13 $6\sqrt{160} + 3\sqrt{567} =$

14 $\sqrt{250} - \sqrt{216} =$

15 $9\sqrt{405} - 6\sqrt{20} =$

Somme de Radicaux - Solutions

$$1 \quad \sqrt{405} + \sqrt{126} = 9\sqrt{5} + 3\sqrt{14}$$

$$2 \quad 4\sqrt{90} - 6\sqrt{250} = 4 \cdot 3\sqrt{10} - 6 \cdot 5\sqrt{10} = 12\sqrt{10} - 30\sqrt{10} = -18\sqrt{10}$$

$$3 \quad \sqrt{250} - \sqrt{160} = 5\sqrt{10} - 4\sqrt{10} = \sqrt{10}$$

$$4 \quad 10\sqrt{44} + 3\sqrt{539} = 10 \cdot 2\sqrt{11} + 3 \cdot 7\sqrt{11} = 20\sqrt{11} + 21\sqrt{11} = 41\sqrt{11}$$

$$5 \quad 2\sqrt{63} + 4\sqrt{252} = 2 \cdot 3\sqrt{7} + 4 \cdot 6\sqrt{7} = 6\sqrt{7} + 24\sqrt{7} = 30\sqrt{7}$$

$$6 \quad \sqrt{320} + \sqrt{96} = 8\sqrt{5} + 4\sqrt{6}$$

$$7 \quad -10\sqrt{176} - 3\sqrt{99} = -10 \cdot 4\sqrt{11} - 3 \cdot 3\sqrt{11} = -40\sqrt{11} - 9\sqrt{11} = -49\sqrt{11}$$

$$8 \quad \sqrt{245} - \sqrt{275} = 7\sqrt{5} - 5\sqrt{11}$$

$$9 \quad \sqrt{216} - \sqrt{486} = 6\sqrt{6} - 9\sqrt{6} = 0$$

$$10 \quad 7\sqrt{486} - 3\sqrt{605} = 7 \cdot 9\sqrt{6} - 3 \cdot 11\sqrt{5} = 63\sqrt{6} - 33\sqrt{5}$$

$$11 \quad 9\sqrt{160} + 3\sqrt{242} = 9 \cdot 4\sqrt{10} + 3 \cdot 11\sqrt{2} = 36\sqrt{10} + 33\sqrt{2}$$

$$12 \quad \sqrt{28} + \sqrt{1008} = 2\sqrt{7} + 12\sqrt{7} = 14\sqrt{7}$$

$$13 \quad 6\sqrt{160} + 3\sqrt{567} = 6 \cdot 4\sqrt{10} + 3 \cdot 9\sqrt{7} = 24\sqrt{10} + 27\sqrt{7}$$

$$14 \quad \sqrt{250} - \sqrt{216} = 5\sqrt{10} - 6\sqrt{6}$$

$$15 \quad 9\sqrt{405} - 6\sqrt{20} = 9 \cdot 9\sqrt{5} - 6 \cdot 2\sqrt{5} = 81\sqrt{5} - 12\sqrt{5} = 69\sqrt{5}$$