

Questionario Plataforma Act. Sem 26 L. 8

$$1 \quad 3 \sqrt{80} + 4 \sqrt{63} - 6 \sqrt{180} - \sqrt{7}$$

$$\sqrt{80} = 2 \cdot 2 \cdot 5$$

$$3 \cdot 2 \cdot 2 \sqrt{5} = 12 \sqrt{5}$$

$$2^4 \cdot 5$$

$$2 \cdot 2^2 \cdot 5$$

$$\sqrt{63} = 3 \sqrt{7}$$

$$4 \cdot 3 \sqrt{7} = 12 \sqrt{7}$$

$$\sqrt{180} = 2 \cdot 3 \sqrt{5}$$

$$6 \cdot 2 \cdot 3 \sqrt{5} = 36 \sqrt{5}$$

$$8 \ 0 \ 2$$

$$4 \ 0 \ 2$$

$$2 \ 0 \ 2$$

$$1 \ 0 \ 2$$

$$5 \ 0$$

$$1$$

$$6 \ 3 \ 3$$

$$2 \ 1 \ 3$$

$$7 \ 7$$

$$1$$

$$1 \ 8 \ 0 \ 2$$

$$9 \ 0 \ 2$$

$$4 \ 5 \ 3$$

$$1 \ 5 \ 3$$

$$5 \ 5$$

$$1$$

R11

$$12 \sqrt{5} + 12 \sqrt{7} - 36 \sqrt{5} - 4 \sqrt{7}$$

$$-24 \sqrt{5} + 8 \sqrt{7}$$

$$2. \quad 5 \sqrt[3]{ab^2} - 4 \sqrt[3]{ab^2} - 12 \sqrt[3]{ab^2}$$

$$(5 - 4 - 8 - 12) \sqrt[3]{ab^2}$$

$$(5 - 24) \sqrt[3]{ab^2} = -19 \sqrt[3]{ab^2}$$

$$3. \quad 3 \sqrt{2xy^2} - 3 \sqrt{18x^3} - (x + 2y) \sqrt{2x}$$

$$3 \sqrt{2xy^2} = -3 \sqrt{2 \cdot x \cdot y^2} = 3y \sqrt{2x}$$

$$- 3 \sqrt{18x^3} = -3 \sqrt{3^2 \cdot 2 \cdot x^2 \cdot x} = -3 \cdot 3 \cdot x \sqrt{2x} = -9x \sqrt{2x}$$

$$- (x + 2y) \sqrt{2x} = -x - 2y \sqrt{2x}$$

$$3y \sqrt{2x} - 9x \sqrt{2x} - x - 2y \sqrt{2x}$$

$$(3y - 9x - x - 2y) \sqrt{2x}$$

$$(-10x + y) \sqrt{2x}$$

$$-10x \sqrt{2x} + y \sqrt{2x}$$

$$4. \quad 7 \sqrt{80} - 2 \sqrt{800} - 5 \sqrt{320} - \sqrt{450}$$

$$7 \sqrt{80} = 7 \sqrt{2^2 \cdot 2^2 \cdot 5} = 7 \cdot 2 \cdot 2 \sqrt{5} = 28 \sqrt{5}$$

8	0	2
4	0	2
2	0	2
1	0	2
5	5	
1		

$$- 2 \sqrt{800} = -2 \sqrt{2^2 \cdot 2^2 \cdot 2 \cdot 5^2} = 2 \cdot 2 \cdot 2 \cdot 5 \sqrt{2} = -40 \sqrt{2}$$

8	0	0	2
4	0	0	2
2	0	0	2
1	0	0	2
5	0		2
2	5		5
5			5
1			

$$- 5 \sqrt{320} = -5 \sqrt{2^5 \cdot 2 \cdot 2^2 \cdot 5} = 5 \cdot 2 \cdot 2 \cdot 2 \sqrt{5} =$$

3	2	0	2
1	6	0	2
8	0		2
4	0		2
2	0		2
1	0		2
5	5		5
1			

$$40 \sqrt{5}$$

8	0	2
4	0	2
2	0	2
1	0	2
5	5	
1		

$$-\sqrt{450} = -\sqrt{2 \cdot 3^2 \cdot 5^2} = -3 \cdot 5 \sqrt{2} = -15\sqrt{2}$$

$$-15\sqrt{2}$$

$$450 \div 2$$

$$225 \div 3$$

$$75 \div 3$$

$$25 \div 5$$

$$5 \div 5$$

$$1$$

$$28\sqrt{5} - 40\sqrt{2} - 40\sqrt{5} - 15\sqrt{2}$$

$$-12\sqrt{5} - 55\sqrt{2}$$