Hersieningsblad 5: EKSPONENTWETTE- GEMENGDE OEF

$$1. ab^{2}×a^{4}b^{4}$$

$$2. (3x^{4})^{3}$$

$$3. 5^{0}+5^{2}+5^{-1}$$

$$4. 2x^{3}(2x^{3})^{3}$$

$$5. (a^{2})^{5}×a^{2}×a^{5}$$

$$6. 2x^{0}+(2x)^{0}$$

$$7. -3(-2a^{4})^{3}$$

$$8. (2x^{2}y)^{3}×\frac{5^{0}y}{y^{5}}$$

$$9. (\frac{3}{x^{-2}})^{2}$$

$$10. \frac{(a^{2}b^{3}c)(2ac^{2})^{4}}{2a^{4}×(b^{2}c)^{3}}$$

$$11. 2xy^{2}÷(4x^{2}y^{3})^{2}×8x^{4}y^{5}$$

$$12. \frac{16ab^{2}}{12a^{2}b^{6}}$$

$$13. (\frac{3a^{3}b^{4}}{4c^{5}})^{2}$$

$$14. \frac{(m^{6}n^{4})^{5}}{(m^{3}n^{2})^{2}}$$

$$15. 2\left(2a^{2}b3)^{2}(-2a^{2}b\right)$$

$$16. \frac{(a^{2}b^{3})^{4}×(8ab^{-2})^{2}}{4ab^{5}×12a^{9}b^{7}}$$

$$17. \frac{7^{0}x^{3}y^{-2}}{x^{-2}}$$

$$18. \frac{(x^{6})^{2}}{-x^{12}}$$

$$19.\sqrt[3]{27a^{9}b^{6}}÷3a^{2}b^{2}$$

$$20. 4a^{2}-3a×4b^{2}-\sqrt{36a^{2}b^{4}}$$

Eksponentwette

1. $x^{a}×x^{b}=x^{a+b}$
2. $ \frac{x^{a}}{x^{b}}=x^{a-b}$
3. $(x^{a})^{b}=x^{a×b}=x^{ab}$
4. $ x^{a}y^{a}=(xy)^{a}$
5. $x^{0}=1$
6. $ x^{-1}=\frac{1}{x}$
7. $ \sqrt[a]{x^{b}}=x^{\frac{b}{a}}$
8. $ (\sqrt[a]{x})^{a}=x$
9. $ (\sqrt[a]{x})^{b}=x^{\frac{b}{a}}$
10. $\sqrt{xy}=\sqrt{x}×\sqrt{y}$
11. $\sqrt{\frac{x}{y}}=\frac{\sqrt{x}}{\sqrt{y}}$
12. $\sqrt[a]{\sqrt[b]{x}}=\sqrt[a×b]{x}$

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