

Simplifying Exponential Expressions

Class Work Answer Key

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| <p>1. $4m^5$</p> <p>2. $2m$</p> <p>3. $8r^{-1} = \frac{8}{r}$</p> <p>4. $8n$</p> <p>5. $8k^5$</p> <p>6. $4x^2y^0 = 4x^2$</p> <p>7. $6y^2x$</p> <p>8. $4v^4u^2$</p> <p>9. $12a^{-1}b^{-1} = \frac{12}{ab}$</p> <p>10. $x^5y^{-2} = \frac{x^5}{y^2}$</p> <p>11. $x^0 = 1$</p> <p>12. $2^{-4}x^{-8} = \frac{1}{2^4x^8} = \frac{1}{16x^8}$</p> <p>13. $\frac{3x^2y^2}{8xy} = \frac{3xy}{8}$</p> <p>14. $16a^6$</p> <p>15. x^4y^3</p> <p>16. $\frac{2n^9}{n} = 2n^8$</p> <p>17. $ba^4(2^{-3}b^{-3}a^{-12}) = \frac{ba^4}{2^3b^3a^{12}} = \frac{1}{8ba^8}$</p> <p>18. $x^4y^{-2} = \frac{x^4}{y^2}$</p> | <p>19. $\frac{2y^3}{2x^4}$</p> <p>20. $\frac{1}{9m^2}$</p> <p>21. $\frac{2^{-4}p^{-4}m^4q^0 \cdot 2m^{-1}p^3}{2pq^2} = \frac{m^3}{2^4p^2q^2} = \frac{m^3}{16p^2q^2}$</p> <p>22. $\frac{1}{4x^5}$</p> <p>23. n</p> <p>24. $\frac{2y^2}{x}$</p> <p>25. $\frac{3}{m^7}$</p> <p>26. $\frac{m^3}{16p^2q^2}$</p> <p>27. $\frac{z^3}{xy^2}$</p> <p>28. $\frac{2^3x^9z^0}{x^{-1}y^4z^5} = \frac{8x^{10}z}{y^4}$</p> <p>29. $\frac{4m^2}{3p}$</p> <p>30. $\frac{h^3 \cdot 4k^2}{j^2}$</p> |
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