
Homework 11-3
Dividing Variables with Exponents

Unit 11**Simplify.**

1. $(-2^3)^2$

6. $4 + 2(10 - 8)^2 \div 4$

2. $3 + 9 \div 3 + (5 - 3)^2$

7. $\sqrt{64} + 8$

3. $9 - \sqrt{25}$

8. $(-3x^4)(-3x^4)$

4. $(6c^2)(-2c^3)$

9. $\frac{-12k^5}{4k^3}$

5. $\frac{2f \cdot 3u \cdot n^3}{6n^2}$

10. $[x + (2 \div 12)^3 + (x + 6)^5]^0$

Divide the expressions and simplify.

11. $\frac{3^2}{3^4} = \text{-----}$ (expanded form)

$=$ (actual value)

12. $\frac{a^3}{a^4} = \text{-----}$ (expanded form)

$=$ (actual value)

13. $\frac{3y^5}{9y^2} = \text{-----}$ (expanded form)

= (actual value)

14. $\frac{3x^3y}{12xy^2} = \text{-----}$ (expanded form)

= (actual value)

15. $\frac{x^7}{x^7}$

17. $\frac{5b^4}{b^2}$

19. $\frac{9m^2n}{3m^2n^2}$

16. $\frac{m^2}{m}$

18. $\frac{3y^4}{6y^3}$

20. $\frac{s^2t^3}{7st^5}$