



3.5 Negative and Zero Exponents

Name: _____ per. _____

Write each of the following without negative or zero exponents.

1. 2^{-3}

2. m^0

3. a^{-5}

4. $3n^{-2}$

5. $(xy^4)^0$

6. $-x^{-2}x^{-3}$

7. $a^{-2}b^{-6}b^3$

8. $c^{-4}d^3$

9. $v^0w^2y^{-1}$

10. r^6r^{-2}

11. $\frac{m^2}{m^{-3}}$

12. $\frac{2a^{-5}}{a^{-6}}$

13. $\frac{a^5b^8}{a^5b^3}$

14. $\frac{s^{-7}t^2}{s^{-3}t^3}$

15. $\frac{4x^8y^4}{24x^3y^4}$

16. $\frac{16a^4b^{-4}c^7}{8a^6b^{-4}c^{-6}}$

17. $\frac{(2x^3)(10x^5)}{4x^{-1}}$

18. $\frac{b^{-2}b^4}{b^{-4}b^4}$

19. -4^{-3}

20. $7^{-5} \cdot 7^2$