



Solve each problem using the laws of exponents.

Answers

1) $3^{-2} =$ _____ = _____

1. _____

2) $2^0 =$ _____ = _____

2. _____

3) $2^{-2} \times 2^4 =$ _____ = _____

3. _____

4. _____

4) $2^4 \times 2^{-2} =$ _____ = _____

5. _____

6. _____

5) $3^0 =$ _____ = _____

7. _____

8. _____

6) $2^1 =$ _____ = _____

9. _____

10. _____

7) $(\frac{1}{2})^4 =$ _____ = _____

8) $3^{-3} =$ _____ = _____

9) $(2^4)^3 =$ _____ = _____

10) $2^1 =$ _____ = _____



Solve each problem using the laws of exponents.

1) $3^{-2} = \frac{1}{3^2} = \frac{1}{9}$

2) $2^0 = 1 = 1$

3) $2^{-2} \times 2^4 = 2^{-2+4} = 4$

4) $2^4 \times 2^{-2} = 2^{4-2} = 4$

5) $3^0 = 1 = 1$

6) $2^1 = 2 = 2$

7) $(\frac{1}{2})^4 = \frac{1}{2^4} = \frac{1}{16}$

8) $3^{-3} = \frac{1}{3^3} = \frac{1}{27}$

9) $(2^4)^3 = 2^{4 \times 3} = 4,096$

10) $2^1 = 2 = 2$

Answers

1. $\frac{1}{9}$

2. 1

3. 4

4. 4

5. 1

6. 2

7. $\frac{1}{16}$

8. $\frac{1}{27}$

9. $4,096$

10. 2