



Solve each problem using the laws of exponents.

Answers

1) $2^0 =$ _____ $=$ _____

1. _____

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

2. _____

3) $(\frac{1}{3})^2 =$ _____ $=$ _____

3. _____

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

4. _____

5) $3^4 \times 3^{-2} =$ _____ $=$ _____

5. _____

6) $(3 \times 2)^4 =$ _____ $=$ _____

6. _____

7) $2^{-2} =$ _____ $=$ _____

7. _____

8) $(3 \times 2)^4 =$ _____ $=$ _____

8. _____

9) $2^1 =$ _____ $=$ _____

9. _____

10) $3^3 \times 3^2 =$ _____ $=$ _____

10. _____



Solve each problem using the laws of exponents.

1) $2^0 = \underline{1} = \underline{1}$

2) $(2^2)^4 = \underline{2^{2 \times 4}} = \underline{256}$

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

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

5) $3^4 \times 3^{-2} = \underline{3^{4-2}} = \underline{9}$

6) $(3 \times 2)^4 = \underline{3^4 \times 2^4} = \underline{1,296}$

7) $2^{-2} = \underline{\frac{1}{2^2}} = \underline{\frac{1}{4}}$

8) $(3 \times 2)^4 = \underline{3^4 \times 2^4} = \underline{1,296}$

9) $2^1 = \underline{2} = \underline{2}$

10) $3^3 \times 3^2 = \underline{3^{3+2}} = \underline{243}$

Answers

1. $\underline{1}$

2. $\underline{256}$

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

4. $\underline{3}$

5. $\underline{9}$

6. $\underline{1,296}$

7. $\underline{\frac{1}{4}}$

8. $\underline{1,296}$

9. $\underline{2}$

10. $\underline{243}$