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50 questions

Current question sets (7):

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13) $10uv^4 \cdot 9v^2$

15) $6u^3v^3 \cdot 10uv^3$

14) $2nm^3 \cdot 10m^2n^2 \cdot 7nm^4$

$$= 140m^9n^4$$

16) $\frac{7x}{8x^4}$

$$= \frac{7}{8x^3}$$



17) $\frac{4x^3}{8x^3}$

18) $\frac{a^3}{7a^3}$

19) $\frac{4x^4}{6x^2}$

20) $\frac{8x}{4x}$

21) $\frac{6m}{5m^4}$

22) $\frac{3n}{2n^3}$

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27) $\frac{x^3 y^4}{6x^5 y^3}$ $\leftarrow 4 - 3 = 1$
 $= \frac{1 y}{6 x^2}$
 28) $\frac{8uv^2}{4u^4}$
 29) $\frac{8x^2}{9x^2 y^3}$
 $(3)(1) = 3$
 30) $\frac{10mn^5}{9m^5}$
 31) $(3n)^3$
 $3^3 = 27$
 $= 27n^3$
 32) $(2m^2)^2$
 -2-

33) $(4r^4)^2$

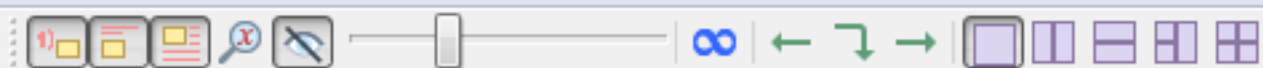
34) $(5x^3)^2$

35) $(7r^2)^2$

36) $(x^2)^4$

37) $(a^4)^4$

38) $(3x^3)^4$

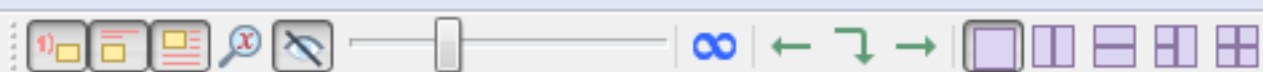


Simplify. Your answer should contain only positive exponents.

$$46) \frac{(-8x^3)(-4x^2)}{7x^3}$$

$$= \frac{32x^5}{7x^3}$$

$$= \frac{32x^2}{7}$$



Simplify. Your answer should contain only positive exponents.

$$47) \frac{3r^4 \cdot -3r^3}{6r^3}$$

$$= \frac{9r^7}{6r^3}$$

$$= \frac{3r^7}{2r^3}$$

$$= \frac{3r^4}{2}$$

Zero Exponent

$$(8x^4)^0$$

$$= 1$$

$$2x^0$$

$$= 1$$

$$(2x)^0 (2x)$$

$$= (1) (2x)$$

$$= 2x$$

Negative Exp.

$$\begin{array}{r} 4 \\ \hline \end{array}$$


A diagram illustrating a negative exponent. It shows a fraction with 4 in the numerator and a denominator consisting of a horizontal line with a minus sign and the number 3. A blue oval encloses the denominator, and a blue arrow points from the top of the oval to the 4 in the numerator.

$$= 4 \times 3$$

$$14) (-2x^2) (-3x^1)$$

$$= 6x^1$$

$$= \frac{6}{x}$$

$$\begin{array}{r} -2 \\ = \\ +1 \\ -1 \end{array}$$