

Aleks Question and Answers

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1) Simplify $y^4 y^2 y$

$$\begin{aligned} \text{Ans) } & y^4 y^2 y \\ & = y^{4+2+1} \\ & = y^7 \end{aligned}$$

2) Simplify $\frac{2x^2}{2x^2}$

$$\begin{aligned} \text{Ans) } & \frac{2x^2}{2x^2} \\ & = \frac{2^{1-1} x^{2-2}}{2^{1-1} x^{2-2}} \\ & = \frac{x^0}{x^0} \\ & = \frac{1}{1} \\ & = 1 \end{aligned}$$

3) Simplify $\left(\frac{-2x^2}{3y}\right)^3$

$$\begin{aligned} \text{Ans) } & \left(\frac{-2x^2}{3y}\right)^3 \\ & = \frac{(-2)^3 (x^2)^3}{3^3 y^3} \\ & = \frac{-8x^6}{27y^3} \end{aligned}$$

4) Rewrite the following without an exponent. $(-5)^{-1}$

$$\begin{aligned} \text{Ans) } & (-5)^{-1} \\ & = \frac{1}{-5} \\ & = -\frac{1}{5} \end{aligned}$$

This is a comprehensive list of helpful Aleks Answers for you.

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5) Simplify $\frac{z^{-4}}{z^2}$ (Write your answer with a positive exponent only)

$$\begin{aligned} \text{Ans) } & \frac{z^{-4}}{z^2} \\ & = z^{-4-2} \\ & = z^{-6} \\ & = z^{-6} \\ & = \frac{1}{z^6} \end{aligned}$$

6) Simplify:

$(y^3)^{-5}$ (Write your answer without using negative exponent)

$$\begin{aligned} \text{Ans) } & (y^3)^{-5} \\ & = y^{3(-5)} \\ & = y^{-15} \\ & = \frac{1}{y^{15}} \end{aligned}$$

7) Simplify: $(-x^2 + 2x - 5) + (6x^2 + 3x + 4)$

$$\begin{aligned} \text{Ans) } & (-x^2 + 2x - 5) + (6x^2 + 3x + 4) \\ & = -x^2 + 6x^2 + 2x + 3x + 4 - 5 \\ & = 5x^2 + 5x - 1 \end{aligned}$$

8) Use the distributive property to remove the parentheses.

$$10w^2(2w^4 + 5w)$$

Simplify your answer as much as possible.

$$\begin{aligned} \text{Ans) } & 10w^2(2w^4 + 5w) \\ & = 10 \times 2w^{2+4} + 10 \times 5w^{2+1} \\ & = 20w^6 + 50w^3 \end{aligned}$$

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9) Multiply. $(w + 4)(w - 6)$

Simplify your answer:

$$\begin{aligned} \text{Ans) } & (w + 4)(w - 6) \\ & = w(w - 6) + 4(w - 6) \\ & = w^2 - 6w + 4w - 6 \times 4 \\ & = w^2 - 2w - 24 \end{aligned}$$

10) Divide.

$$\frac{6u^3 - 14u^2}{2u^2}$$

Simplify your answer as much as possible.

$$\begin{aligned} \text{Ans) } & \frac{6u^3 - 14u^2}{2u^2} \\ & = \frac{6u^3}{2u^2} - \frac{14u^2}{2u^2} \\ & = 3u^2 - 7 \end{aligned}$$

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