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Aleks Question and Answers

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1) Simplify $y^4\, y^5\, y$

Ans) $y^4\, y^5\, y$

$= y^{4+5+1}$

$= y^{10}$

2) Simplify $\frac{z^3 y^4}{z^2 y^5}$

Ans) $\frac{z^3 y^4}{z^2 y^5}$

$= \frac{z^{3-2}}{y^{5-4}}$

$= \frac{z}{y}$

3) Simplify $\left(-\frac{3y^4}{z}\right)^3$

Ans)

$\left(-\frac{3y^4}{z}\right)^3$

$= \frac{(-3)^3 (y^4)^3}{z^3}$

$= -\frac{27y^{12}}{z^3}$

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

Ans) $(-5)^{-1}$

$= \frac{1}{-5}$

$= -\frac{1}{5}$

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

Ans) $\frac{z^{-5}}{z^{-2}}$

$= z^{-5-(-2)}$

$= z^{-5+2}$

$= z^{-3}$

$= \frac{1}{z^3}$

6) Simplify:

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

Ans) $(y^5)^{-5}$

$= y^{5(-5)}$

$= y^{-25}$

$= \frac{1}{y^{25}}$

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

Ans) $(-x^2 + 2x - 5) + (6x^2 + 3x + 4)$

$= -x^2 + 6x^2 + 2x + 3x + 4 - 5$

$= 5x^2 + 5x - 1$

8) Use the distributive property to remove the parentheses

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

Simplify your answer as much as possible.

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

$= 10 \times 2w^{2+4} + 10 \times 5w^{2+1}$

$= 20w^6 + 50w^3$

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

Simplify your answer.

Ans) $(w+4)(w-6)$

$= w(w-6)+4(w-6)$

$= w^2-6w+4w-6\times 4$

$= w^2-2w-24$

10) Divide.

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

Simplify your answer as much as possible.

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

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

$= 3u^2-7$