Simplify: $(x^3y^5)(x^2y)(x^0)$

a. 1
b. x^6y^5
c. x^5y^5
d. x^5y^6

Simplify: $3x^{-3}$

a. $\frac{3}{x^3}$
c. $\frac{1}{27x^3}$
b. $\frac{1}{3x^3}$
d. $\frac{-9}{x^3}$

Simplify: $\frac{48x^{12}y^8}{16x^{14}y^6}$

a. $\frac{3y^{-2}}{x^{-2}}$
c. $\frac{1y^2}{3x^2}$
b. $\frac{3x^2}{y^2}$
d. $\frac{3y^2}{x^2}$

Simplify: $\frac{r^2s^4}{r^{-2}s^5}$

a. $\frac{1}{s}$
c. r^4s^9
b. $\frac{r^4}{s}$
d. $\frac{s}{r^4}$

Simplify: $(3x^3y^5)^0$

a. 1
b. 3
c. $3x^0y^0$
d. x^3y^5

Simplify: $\frac{-8xyz^2}{32x^3y^2z^5}$

a. $4x^4y^3z^7$
c. $\frac{-1}{4x^4y^3z^7}$
b. $-4x^2yz^3$
d. $\frac{-1}{4x^2yz^3}$

Simplify: $\dfrac{10a^{10}b^{5}}{2a^{11}b^{5}}$

a. $5a$

c. $\dfrac{5}{a}$

b. $8a$

d. $\dfrac{1}{5a}$

Simplify: $\dfrac{\left(6x^{8}y^{-3}\right)^{2}}{18x^{-7}y^{8}}$

a. $\dfrac{2x^{23}}{y^{14}}$

c. $\dfrac{2x^{9}}{3y^{2}}$

b. $\dfrac{2x^{23}}{y^{14}}$

d. $\dfrac{2x^{3}}{3y^{9}}$

Simplify: $\dfrac{5x^{-2}y^{0}z^{-5}}{-15x^{3}y^{-3}z^{7}}$

a. $-\dfrac{y^{3}}{3x^{5}z^{12}}$

c. $-\dfrac{x^{5}}{3z^{12}}$

b. $-\dfrac{y^{3}}{10x^{5}z^{12}}$

d. $-\dfrac{x^{5}y^{3}z^{12}}{3}$

Simplify: $\left(\dfrac{6x^{3}y}{x^{0}y^{5}}\right)^{2}$

a. $\dfrac{6x^{6}}{y^{8}}$

c. $\dfrac{36x^{6}}{y^{4}}$

b. $\dfrac{36x^{6}}{y^{8}}$

d. $36x^{6}y^{8}$

Write in scientific notation:

$.00000375$

a. $37.5\,x10^{-5}$

c. $3.75\,x\,106$

b. $3.75\,x\,10^{-6}$

d. $37.5\,x10^{5}$