

1. Simplify the expression. $\frac{7r^3w^6}{2r^5w^2}$

A. $\frac{7}{2r^2w^4}$

B. $\frac{7r^2}{2w^4}$

C. $\frac{7}{2}rw^6$

D. $\frac{7w^4}{2r^2}$

E. $\frac{7}{2r^8w^8}$

F. $\frac{7}{2}r^8w^8$

G. $\frac{7}{2}r^2w^4$

H. $\frac{7}{2}(rw)^6$

2. Simplify the expression. $\left[\left(\frac{5c^9w^6}{6c^2w^5}\right)\left(\frac{2c^8w^7}{14c^3w^4}\right)\right]^0 + \left[\left(\frac{6\gamma^7x^9}{18\beta^2w^3}\right)\left(\frac{14x^9b^8}{5w^3a^2}\right)\right]^0$

A. $\frac{5}{42}c^{16}w^{14}$

B. $\frac{3}{28}c^{12}w^4$

C. $\frac{5}{42}c^{12}w^4$

D. 0

E. $\frac{3}{28}c^{16}w^4$

F. $\frac{3}{28}c^{12}w^{14}$

G. 2

H. 1

3. Simplify the expression. $\left(\frac{18t^6w^9}{16t^2w^4}\right)\left(\frac{20t^7w^7}{7t^3w^5}\right)$

A. $\frac{45}{14}(tw)^9$

B. $\frac{45}{14}tw^9$

C. $\frac{45}{14}t^8w^7$

D. $\frac{45}{14t^4w^5}$

E. $\frac{45}{14}t^8w^{13}$

F. $\frac{45t^4}{14w^5}$

G. $\frac{45}{14t^8w^{13}}$

H. $\frac{45w^5}{14t^4}$

4. Simplify the expression. $\left(\frac{x^8}{x^2}\right)^9$

A. x^{-7}

B. $6x$

C. $16x^{10}$

D. x^{15}

E. $16x$

F. $16x^{16}$

G. x^{54}

H. x^{90}

5. Simplify the expression. $\frac{\alpha^6\gamma^2}{\alpha^3\gamma^8}$

A. $\alpha^3\gamma^6$

B. $(\alpha\gamma)^9$

C. $\frac{1}{\alpha^3\gamma^6}$

D. $\frac{\gamma^6}{\alpha^3}$

E. $\alpha\gamma^9$

F. $\frac{1}{\alpha^9\gamma^{10}}$

G. $\alpha^9\gamma^{10}$

H. $\frac{\alpha^3}{\gamma^6}$

6. Simplify the expression. $\frac{\alpha^7u^5}{\alpha^2u^3}$

A. $\frac{\alpha^5}{u^2}$

B. $\frac{u^2}{\alpha^5}$

C. $(\alpha u)^7$

D. $\frac{1}{\alpha^5u^2}$

E. α^5u^2

F. αu^7

G. α^9u^8

H. $\frac{1}{\alpha^9u^8}$

7. Simplify the expression. $\frac{v^9}{v^4}$

A. $36v$

B. $13v^{36}$

C. $5v^{13}$

D. $5v$

E. $36v^{36}$

F. $36v^{13}$

G. v^{-1}

H. v^5

8. Simplify the expression. $\frac{y^4 a^5}{y^6 a^3}$

A. $y^{10} a^8$

B. $\frac{a^2}{y^2}$

C. ya^4

D. $(ya)^4$

E. $\frac{1}{y^2 a^2}$

F. $\frac{y^2}{a^2}$

G. $\frac{1}{y^{10} a^8}$

H. $y^2 a^2$