

#1

Simplify

$$\frac{3p^9 \cdot 2p^4}{7p^8}$$

- $\frac{6}{7}p^{21}$                         $\frac{6}{7}p^{-21}$
- $\frac{6}{7}p^{-5}$                         $\frac{6}{7}p^5$

Show your work

#2

Simplify

$$\frac{3p^9 \cdot 2p^4}{7p^8}$$

- $\frac{6}{7}p^{21}$                         $\frac{6}{7}p^{-21}$
- $\frac{6}{7}p^{-5}$                         $\frac{6}{7}p^5$

Show your work

#3

Simplify

$$\frac{4|{}^8 \cdot 8|{}^6}{6|{}^7}$$

- $5\frac{1}{3}|{}^{-21}$                         $5\frac{1}{3}|{}^{21}$
- $5\frac{1}{3}|{}^7$                         $5\frac{1}{3}|{}^{-7}$

Show your work

#4

Simplify

$$\frac{i^9 \cdot 3i^{10}}{6i^6}$$

$\frac{1}{2}i^{-25}$

$\frac{1}{2}i^{13}$

$\frac{1}{2}i^{-13}$

$\frac{1}{2}i^{25}$

Show your work

#5

Simplify

$$\frac{6x^2}{4x^4 \cdot 2x^6}$$

$\frac{3}{4}x^{-8}$

$\frac{3}{4}x^{-12}$

$\frac{3}{4}x^{12}$

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

Show your work

#6

Simplify

$$\frac{7o^5}{10o^4 \cdot o^{10}}$$

$\frac{7}{10}o^9$

$\frac{7}{10}o^{-19}$

$\frac{7}{10}o^{19}$

$\frac{7}{10}o^{-9}$

Show your work

#7

Simplify

$$\frac{n^5 \cdot 3n^{10}}{2n^3}$$

- $1\frac{1}{2}n^{-12}$                         $1\frac{1}{2}n^{12}$   
  $1\frac{1}{2}n^{18}$                           $1\frac{1}{2}n^{-18}$

Show your work

#8

Simplify

$$\frac{n^5 \cdot 3n^{10}}{2n^3}$$

- $1\frac{1}{2}n^{-12}$                         $1\frac{1}{2}n^{12}$   
  $1\frac{1}{2}n^{18}$                           $1\frac{1}{2}n^{-18}$

Show your work

#9

Simplify

$$\frac{6w^{10}}{5w^2 \cdot 10w^4}$$

- $\frac{3}{25}w^{-4}$                           $\frac{3}{25}w^4$   
  $\frac{3}{25}w^{-16}$                         $\frac{3}{25}w^{16}$

Show your work

#10

Simplify

$$\frac{5p^3 \cdot 7p^5}{9p^{10}}$$

- $3\frac{8}{9}p^{18}$ 
  $3\frac{8}{9}p^2$   
  $3\frac{8}{9}p^{-18}$ 
  $3\frac{8}{9}p^{-2}$

Show your work

#11

Simplify

$$\frac{2c^8 \cdot c^3}{4c^7}$$

- $\frac{1}{2}c^{18}$ 
  $\frac{1}{2}c^{-18}$   
  $\frac{1}{2}c^4$ 
  $\frac{1}{2}c^{-4}$

Show your work

#12

Simplify

$$\frac{a^8}{6a^3 \cdot 2a^{10}}$$

- $\frac{1}{12}a^{-5}$ 
  $\frac{1}{12}a^{-21}$   
  $\frac{1}{12}a^5$ 
  $\frac{1}{12}a^{21}$

Show your work

Question	Answer
#1	choice 4
#2	choice 4
#3	choice 3
#4	choice 2
#5	choice 1
#6	choice 4
#7	choice 2
#8	choice 2
#9	choice 2
#10	choice 4
#11	choice 3
#12	choice 1