

#1

Simplify. Express your answer as a single term.

$$(a^6)^7$$

$a^{13}$

$a^{42}$

$a^{-13}$

$a^{-42}$

Show your work

#2

Simplify. Express your answer as a single term.

$$(w^4)^6$$

$w^{-10}$

$w^{24}$

$w^{10}$

$w^{-24}$

Show your work

#3

Simplify. Express your answer as a single term.

$$(w^1)^8$$

$w^{-8}$

$w^{-9}$

$w^9$

$w^8$

Show your work

#4

Simplify. Express your answer as a single term.

$$(a^7)^9$$

$a^{-63}$

$a^{16}$

$a^{-16}$

$a^{63}$

Show your work

#5

Simplify. Express your answer as a single term.

$$(i^9)^3$$

$i^{-27}$

$i^{12}$

$i^{27}$

$i^{-12}$

Show your work

#6

Simplify. Express your answer as a single term.

$$(s^5)^1$$

$s^6$

$s^{-5}$

$s^5$

$s^{-6}$

Show your work

#7

Simplify. Express your answer as a single term.

$$(r^1)^9$$

$r^{-10}$

$r^{-9}$

$r^9$

$r^{10}$

Show your work

#8

Simplify. Express your answer as a single term.

$$(h^5)^2 = \boxed{\phantom{000}} \boxed{\phantom{000}}$$

Show your work

#9

Simplify. Express your answer as a single term.

$$(e^9)^6 = \boxed{\phantom{000}} \boxed{\phantom{000}}$$

Show your work

#10

Simplify. Express your answer as a single term.

$$(g^{10})^5 = \boxed{\phantom{000}} \boxed{\phantom{00}}$$

Show your work

#11

Simplify. Express your answer as a single term.

$$(n^3)^3$$

$n^6$

$n^{-9}$

$n^9$

$n^{-6}$

Show your work

#12

Simplify. Express your answer as a single term.

$$(q^8)^8 = \boxed{\phantom{000}} \boxed{\phantom{00}}$$

Show your work

Question	Answer
#1	choice 2
#2	choice 2
#3	choice 4
#4	choice 4
#5	choice 3
#6	choice 3
#7	choice 3
#8	h, 10
#9	e, 54
#10	g, 50
#11	choice 3
#12	q, 64