

PROPERTIES OF NEGATIVE AND ZERO EXPONENTS

Use the properties of exponents to simplify the expression on each card. Each of the cards on the left will simplify to the same expression as a card on the right. Find the equivalent expressions to complete statements 1-5 at the bottom.

A

$$x^{-8} \cdot x^2$$

F

$$\frac{x^{10}}{x^{20}}$$

B

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

G

$$x^{11} \cdot (x^4)^{-3}$$

C

$$\frac{x^{-2}}{(x^2)^{-4}}$$

H

$$\frac{(x^{-2})^8}{x^{-10}}$$

D

$$\frac{(x^3)^5}{x^8 \cdot x^8}$$

I

$$(x^6)^{-2} \cdot x^{12}$$

E

$$x^{-5} \cdot x^{-6} \cdot x$$

J

$$(x^{-3})^2 \cdot x^{12}$$

1. Card A and
Card _____
simplify to:

2. Card B and
Card _____
simplify to:

3. Card C and
Card _____
simplify to:

4. Card D and
Card _____
simplify to:

5. Card E and
Card _____
simplify to: