

Exercises - Rational Expressions

1

If $n \neq 4$, which of the following is equivalent

to $\frac{n^2}{n-4} + \frac{4n}{4-n}$?

- A) n
 B) $\frac{n(n+4)}{n-4}$
 C) $\frac{n}{n-4}$
 D) $\frac{n+4}{n-4}$

2

If $a \neq \pm 1$, which of the following is equivalent

to $\frac{a}{a^2-1} - \frac{1}{a+1}$?

- A) $\frac{1}{a-1}$
 B) $\frac{1}{a+1}$
 C) $\frac{2a-1}{a^2-1}$
 D) $\frac{1}{a^2-1}$

3

If $y \neq -1$ and $y \neq 0$, which of the following is

equivalent to $\frac{y^2-1}{1+\frac{1}{y}}$?

- A) $\frac{y-1}{y}$
 B) $y(y-1)$
 C) $\frac{y}{y+1}$
 D) $y-1$

4

If $x \neq \pm 1$, which of the following is equivalent

to $\frac{1-\frac{1}{x+1}}{1+\frac{1}{x^2-1}}$?

- A) $\frac{x-1}{x}$
 B) $\frac{x+1}{x}$
 C) $\frac{x-1}{x^2}$
 D) $\frac{x+1}{x^2}$

5

If $x > 3$, which of the following is equivalent

to $\frac{x-3}{\frac{1}{x+2} - \frac{1}{2x-1}}$?

- A) $\frac{x-3}{(x+2)(2x-1)}$
 B) $\frac{(x+2)(2x-1)}{x-3}$
 C) $(x+2)(2x-1)$
 D) $2x-1$

6

If $\frac{x^2-xy}{2x} \div \frac{x-y}{3x^2} = ax^2$, what is the value of a ?