

## Rational Expressions

**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

**Simplify.**

1)  $\frac{2x+16}{2x-16}$  1) \_\_\_\_\_

- A) 1                      B)  $\frac{x+8}{x-8}$                       C) -1                      D)  $\frac{x+16}{x-16}$

**Simplify by removing a factor equal to 1.**

2)  $\frac{y^2+11y+24}{y^2+14y+48}$  2) \_\_\_\_\_

- A)  $\frac{11y+24}{14y+48}$                       B)  $\frac{y+3}{y+6}$   
C)  $\frac{11y+1}{14y+2}$                       D)  $-\frac{y^2+11y+24}{y^2+14y+48}$

**Simplify.**

3)  $\frac{y^2+2y-24}{y^2+4y-32}$  3) \_\_\_\_\_

- A)  $-\frac{y^2+2y-24}{y^2+4y-32}$                       B)  $\frac{y+6}{y+8}$                       C)  $\frac{2y-24}{4y-32}$                       D)  $\frac{2y-3}{4y-4}$

4)  $\frac{r^2-9}{6r+18}$  4) \_\_\_\_\_

- A)  $\frac{r-3}{r+3}$                       B)  $\frac{r+3}{6}$                       C)  $\frac{r-3}{6}$                       D)  $\frac{r^2-3}{6r+6}$

**Simplify by removing a factor equal to 1.**

5)  $\frac{m^2-25}{m^2-10m+25}$  5) \_\_\_\_\_

- A)  $\frac{m+5}{m-5}$                       B)  $\frac{m-5}{m+5}$                       C)  $\frac{1}{m-5}$                       D) 1

**Simplify.**

6)  $\frac{y^2+12y+32}{y^2+16y+64}$  6) \_\_\_\_\_

- A)  $-\frac{y^2+12y+32}{y^2+16y+64}$                       B)  $\frac{y+4}{y+8}$   
C)  $\frac{12y+1}{16y+2}$                       D)  $\frac{12y+32}{16y+64}$

Answer Key

Testname: RATIONAL EXPRESSIONS

- 1) B
- 2) B
- 3) B
- 4) C
- 5) A
- 6) B