

Lab: Rational Functions

Simplify

Name _____

Answers

1. $\frac{7a^3}{21a}$

1. $\frac{a^2}{3}$

2. $\frac{5m-6}{10m-12}$

2. $\frac{1}{2}$

3. $\frac{x^2-16}{x^2-8x+16}$

3. $\frac{x+4}{x-4}$

4. $\frac{5t^3}{4t-8} \cdot \frac{6t-12}{10t}$

4. $\frac{3t^2}{4}$

5. $\frac{y^2-10y+9}{y^2-1} \cdot \frac{y+4}{y^2-5y-36}$

5. $\frac{1}{y+1}$

6. $\frac{x^2-1}{4x+4} \div \frac{3x-3}{12x^2}$

6. x^2

7. $\frac{x^2-16}{x^2-10x+25} \div \frac{3x-12}{x^2-3x-10}$

7. $\frac{(x+4)(x+2)}{3(x-5)}$

8. $\frac{p-1}{p-3} = \frac{2}{p-3}$

8. *No Solution*

9. $\frac{t}{t-1} = \frac{6}{t+1}$

9. $t = 3, t = 2$