

Simplifying Rational Expressions Bell Work

Simplify the following rational expressions.

1. $\frac{10x^2}{15x^2}$

2. $\frac{10m^5}{30m^3}$

3. $\frac{30x^2-45x}{5x}$

4. $\frac{46x^4-69x^3}{23x^2}$

5. $\frac{7x}{14x^2-21x}$

6. $\frac{6m^2}{9m^4-15m^3}$

7. $\frac{ax-ay}{by-bx}$

8. $\frac{14ax+21a}{35ay+42a}$

9. $\frac{9x^2-6xy+y^2}{9x^2-y^2}$

10. $\frac{a^2+2a+1+ab+b}{9a+9b+9}$