

Simplify each and state the

1) $\frac{6k-30}{k^2-8k+15}$

2) $\frac{x^2-8x+15}{x-4}$

Solve each equation. Remember to check for extraneous

3) $|9|-9+4m|-4=113$

4) $-6+4|2p+1|=-2$

5) $-5x+\sqrt{71}x=2$

6) $3+(x-2)^2=12$

7) $\sqrt{x-9}+3=9$

8) $12=\sqrt{x-4}+24$

Simplify each and state the

9) $\frac{a^2+10a}{a^2-4a-32} \div \frac{1}{a+4}$

10) $\frac{x-8}{x-10} \cdot \frac{x^2-11x+28}{10x-20}$

Solve each equation.

11) $\frac{1}{6a} = \frac{1}{6} + \frac{1}{3a}$

12) $-4.4x - 16.81 = -6.7x - 6$