

Name: _____

Date: _____

Solving Rational Expressions (difficult)**Section I. Solve for the variable. Check for extraneous solutions.**

1. $\frac{x}{x-6} = \frac{1}{x-4}$

2. $\frac{y}{y+1} + \frac{y}{y-2} = 2$

3. $\frac{f}{f-3} + \frac{2f}{f+3} = \frac{18}{f^2-9}$

4. $\frac{w}{w-2} + \frac{30}{w+2} = 9$

5. $\frac{h-1}{h+3} + \frac{1}{h-5} = \frac{-1}{h+3}$

6. $\frac{j}{j+3} + \frac{1}{j-1} = \frac{4}{j^2+2j-3}$

7. $\frac{g}{g-1} = \frac{1}{g+2} + \frac{3}{g^2+g-2}$

8. $\frac{h}{h-6} = \frac{1}{h-4}$