IM3- Flagg Name_____

Solving Rational Equations

Date_____ Period____

Solve each equation. Remember to check for extraneous solutions.

1) $\frac{3}{a} = \frac{1}{a} + \frac{1}{5}$

2) $\frac{p+1}{5p^2} = \frac{1}{5p} - \frac{1}{p}$

3) $\frac{1}{2m^2} = \frac{1}{m^2} + \frac{3}{m}$

4) $\frac{1}{b^2} = \frac{1}{3b^2} - \frac{b+4}{3b^2}$

5) $\frac{x-5}{6x} = \frac{x+2}{6x^2} + \frac{x-1}{6x}$

6) $\frac{n^2+2n-15}{5n^2} = \frac{1}{n^2} + \frac{n^2+6n+5}{n^2}$

7) $\frac{1}{v+4} + \frac{4}{v^2+4v} = \frac{2}{v^2+4v}$

8) $\frac{2}{p} + \frac{1}{p} = \frac{6p+18}{p^2+2p}$

9) $\frac{6x-18}{x^3+5x^2} + \frac{x-3}{2x^2} = \frac{1}{2x}$

10) $\frac{v+5}{6v} + \frac{v^2-6v+5}{v} = 1$