Algebra 1B Name_____ ID: 1

8.2B Solving Fractional Quadratics WS

Date_____

Solve each equation. Remember to check for extraneous solutions.

1) $\frac{x-4}{2x}+\frac{3}{x}=\frac{x-2}{6}$

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

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

4) $\frac{p-1}{6p}+\frac{p}{6}=\frac{1}{6p}$

5) $\frac{n-5}{6}-\frac{1}{6n}=\frac{n-6}{6n}$

6) $\frac{1}{2n}=\frac{1}{4}+\frac{n^2+7n+10}{2n}$

7) $\frac{x^2 - 3x + 2}{x} = x + 2 + \frac{1}{x}$

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

9) $\frac{n - 2}{2} - \frac{1}{2n} = \frac{1}{n}$

10) $1 + \frac{1}{4n^2} = \frac{1}{2n^2}$

11) $\frac{1}{3m} = \frac{2m^2 - 10m - 12}{m} - \frac{1}{3}$

12) $\frac{2}{3b^2} = \frac{1}{2} + \frac{1}{6b^2}$