Algebra 2 Name_____ ID: 1

Assignment

Date_____ Period____

Solve each equation. Remember to check for extraneous solutions.

1) $\frac{1}{2a} + 3 = \frac{1}{a}$

2) $\frac{1}{3m} = \frac{1}{2m^2} - \frac{1}{6m}$

3) $\frac{1}{n} + 1 = \frac{3}{n}$

4) $6 + \frac{1}{b} = \frac{4}{b}$

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

6) $\frac{6}{m+1} = \frac{3}{m+1} - 1$

7) $\frac{6a + 36}{a^2 - 5a} + \frac{2a + 10}{a^2 - 5a} = \frac{6}{a - 5}$

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

9) $\frac{n + 4}{2} + \frac{1}{n} = \frac{n^2 + 9n + 20}{6n}$

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

11) $\frac{2}{x + 1} = \frac{2}{x^2 + x} + \frac{2x^2 + 2x - 4}{x^2 + x}$

12) $\frac{6x^2 - 10x - 4}{x^2 - 4x - 5} = \frac{1}{x^2 - 4x - 5} + 1$