Solving Rational Equations

Solve each equation. Remember to check for extraneous solutions.

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

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

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

4)
$$\frac{4}{x} + \frac{1}{x^2} = \frac{1}{5x^2}$$

5)
$$\frac{1}{k^2} = \frac{1}{3k^2} + \frac{k+5}{3k^2}$$

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

7)
$$\frac{6}{k} - \frac{1}{k^2 + 6k} = \frac{1}{k}$$

8)
$$\frac{4}{n+1} + \frac{1}{n^2 - 5n - 6} = \frac{1}{n-6}$$

9)
$$\frac{1}{x+5} - \frac{1}{x^2+5x} = \frac{4}{x^2+5x}$$

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

11)
$$\frac{1}{2v} = \frac{5v + 15}{v^2 - 6v} - \frac{v + 6}{2v^2 - 12v}$$

12)
$$\frac{5}{x+1} = \frac{6}{x^2-2x-3} + \frac{1}{x-3}$$

13)
$$\frac{n^2 + 7n + 6}{n^2} = \frac{1}{6} - \frac{1}{6n^2}$$

14)
$$\frac{k+1}{k} = 1 - \frac{k^2 - 3k - 4}{4k}$$

15)
$$1 = \frac{2}{r^2} - \frac{1}{r}$$

$$16) \ \frac{2n^2 - 8n - 10}{5n} - 1 = \frac{n+6}{5n}$$

17)
$$\frac{x^2 - 3x - 4}{x^3 - x^2} - \frac{1}{x^2} = \frac{x - 2}{x^2}$$

18)
$$1 = \frac{n-2}{n-1} + \frac{3}{n^2 + 3n - 4}$$

19)
$$\frac{v-6}{2v^2+2v-4} + \frac{v}{2v-2} = \frac{1}{2}$$

20)
$$\frac{x-3}{2x+10} + 2x - 12 = \frac{x^2 + 3x - 18}{2x+10}$$

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