Pre-Calculus 11
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Solving Rational Equations

Block: ____ Mark Out Of 16_____

Solve each equation. Remember to check for extraneous solutions.

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

$$2) \ \frac{1}{b} = \frac{5b + 30}{6b^2} + \frac{1}{3b^2}$$

3)
$$\frac{1}{n+1} - \frac{n+5}{n^2-1} = \frac{n+7}{n^2-1}$$

4)
$$\frac{4}{k^2 + 11k + 24} = \frac{1}{k+8} - \frac{1}{k^2 + 11k + 24}$$

5)
$$\frac{1}{n^2 - 10n} = \frac{n^2 - 7n + 10}{5n^2 - 50n} + \frac{1}{5n^2 - 50n}$$

6)
$$\frac{x+1}{2x-2} + \frac{1}{2x-2} = \frac{x+7}{2x-16}$$

7)
$$\frac{6}{r^2 - 3r} = \frac{r + 10}{r - 3} - \frac{r + 10}{r}$$

8)
$$\frac{5}{3} - \frac{3x^2 + 26x + 16}{x^2 + 14x + 40} = \frac{x^2 - 3x + 2}{3x^2 + 42x + 120}$$