

PRACTICE Quiz 5.7

Period _____

Solve each equation. Remember to check for extraneous solutions.

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

2) $1 = \frac{5x^2 - 30x + 25}{2x} - \frac{x - 3}{2}$

3) $\frac{1}{x + 5} + \frac{1}{x^2 + 2x - 15} = \frac{2}{x^2 + 2x - 15}$

4) $\frac{5}{k^3 + 6k^2} = \frac{1}{k^3 + 6k^2} + \frac{1}{k + 6}$

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Period _____

Solve each equation. Remember to check for extraneous solutions.

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

$\left\{-\frac{1}{2}\right\}$

2) $1 = \frac{5x^2 - 30x + 25}{2x} - \frac{x - 3}{2}$

$\left\{1, \frac{25}{4}\right\}$

3) $\frac{1}{x+5} + \frac{1}{x^2+2x-15} = \frac{2}{x^2+2x-15}$

$\{4\}$

4) $\frac{5}{k^3+6k^2} = \frac{1}{k^3+6k^2} + \frac{1}{k+6}$

$\{2, -2\}$