Unit 4 Day 7 Warm Up

Solve each equation. Remember to check for extraneous solutions.

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

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

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

4) $\frac{1}{6} - \frac{1}{6n} = \frac{n-3}{3n}$

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

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

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Solve each equation. Remember to check for extraneous solutions.

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

$\{3\}$

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

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

$\{4\}$

4) $\frac{1}{6} - \frac{1}{6n} = \frac{n-3}{3n}$

$\{5\}$

5) $\frac{1}{n} = \frac{n-2}{n} + \frac{1}{5n}$ $\left\{\frac{14}{5}\right\}$

6) $\frac{1}{x} - \frac{1}{2x^2} = \frac{1}{6x}$ $\left\{\frac{3}{5}\right\}$