Practice Exercises

A. Determine whether the given value on the left is a solution to the rational equation or not. Write *Yes* or *No*.

1. $4;\ \dfrac{2}{x} = \dfrac{6}{12}$

2. $-1;\ \dfrac{-3}{2x} = \dfrac{9}{6}$

3. $\dfrac{1}{9};\ 3x^2 = \dfrac{1}{27}$

4. $-1;\ \dfrac{2}{x} - \dfrac{x}{3} = 5$

5. $6;\ \dfrac{1}{2} + \dfrac{1}{3} = \dfrac{1}{x}$

B. Solve each rational equation. If it

has no solution, write *"No Solution"*.

1. $\frac{a}{3} = \frac{5}{12}$
2. $\frac{6y}{7} - \frac{y}{2} = 5$
3. $\frac{1}{x} - \frac{1}{x^2} = \frac{1}{4}$
4. $\frac{x}{10} + \frac{x}{6} - \frac{x}{15} = 1$
5. $\frac{2}{5} + \frac{2}{y} = 1$

Problem Set

A. Determine whether the given value on the left is a solution to the rational equation or not. Write *Yes* or *No*.

1. $1;\ \dfrac{3x}{5} = \dfrac{15}{25}$
2. $-7;\ \dfrac{1}{x^2} = \dfrac{1}{49}$
3. $\dfrac{-6}{7};\ \dfrac{2}{3} + \dfrac{1}{2} = \dfrac{1}{x}$
4. $\dfrac{-1}{2};\ \dfrac{1}{y} + \dfrac{1}{y^2} = 2$
5. $-2;\ \dfrac{2}{x} + \dfrac{x}{4} = \dfrac{-3}{2}$

B. Solve each rational equation. If it

has no solution, write *"No Solution"*.

1. $\frac{n}{6} - \frac{n}{4} = 9$
2. $\frac{5}{4} - \frac{3}{x} = \frac{1}{2}$
3. $\frac{a+1}{3} = \frac{4}{a}$
4. $\frac{6}{x} + \frac{9}{2x} = 3$
5. $3b - \frac{3}{4} = \frac{2b}{3}$