LESSON 11: Rational Equations
$\square$ Rational Equation
To solve a rational equationConnecting the concepts: expressions versus equations

Use you understanding of fractions and the process of finding least common denominators to solve for $x$. If no solution exists, state this.

1. $\frac{2}{3 x}+\frac{1}{x}=10$
2. $\frac{x-1}{6 x}=\frac{4}{9}$

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3. $\frac{2}{x+5}+\frac{1}{x-5}=\frac{16}{x^{2}-25}$
4. $\frac{1}{m-3}+2=\frac{1}{m-3}$
5. $\frac{1}{3}-\frac{1}{x+2}=\frac{x+14}{3 x^{2}-12}$
6. $\frac{x^{2}}{x-3}=\frac{9}{x-3}$
7. Let $f(x)=x+\frac{6}{x}$. Find all values of $a$ for which $f(a)=5$.
8. Let $g(x)=x-\frac{5}{x}$. Find all values of $w$ for which $g(w)=24$.

