**Simplify the expression.**

1. $\frac{\frac{b}{a} - \frac{a}{b}}{\frac{1}{a}- \frac{1}{b}}$ 2. $\frac{\frac{r}{s}+ \frac{s}{r}}{\frac{r^{2}}{s^{2}}- \frac{s^{2}}{r^{2}}}$ 3. $\frac{\frac{3}{w}- \frac{6}{2w+1}}{\frac{5}{w}+ \frac{8}{2w+1}}$

 4. $\frac{\frac{x+2}{x}- \frac{a+2}{a}}{x-a}$ 5. $\frac{\frac{1}{(x+h)^{3}}-\frac{1}{x^{3}}}{h}$ 6. $\frac{\frac{5}{2x+2h+3}- \frac{5}{2x+3}}{h}$

**Rationalize the denominator.**

7. $\frac{81x^{2}-16y^{2}}{3\sqrt{x}-2\sqrt{y}}$

**Express as a sum of terms of the form ax2, where r is a rational number.**

8. $\frac{4x^{2}-x + 5}{x^{\frac{2}{3}}}$

**Express as a quotient.**

9. x-3 + x2