

Add or subtract as indicated and reduce your answer to lowest terms.

1)

$$\begin{aligned} & \frac{y+9}{y-8} - \frac{y-9}{8-y} \\ &= \frac{y+9}{y-8} - \frac{y-9}{-1(y-8)} \\ &= \frac{y+9}{y-8} - (-1) \left( \frac{y-9}{y-8} \right) \\ &= \frac{y+9}{y-8} + \frac{y-9}{y-8} \\ &= \frac{y+9+y-9}{y-8} \\ &= \frac{2y}{y-8} \end{aligned}$$

2)  $\frac{x+8}{x-3} - \frac{8x-42}{x^2-9}$

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