

Add & Subtract Rational Expressions

1. Write each sum or difference as a single rational expression.

a) $\frac{1}{b+1} - \frac{b}{1+b}$

b) $1 - \frac{1}{1+p}$

c) $\frac{p+q}{p-q} - 2$

d) $\frac{r}{s-r} + \frac{s}{r+s}$

e) $\frac{3}{x-4} + \frac{2}{4-x}$

f) $\frac{3n}{n-2} + \frac{3}{2-n}$

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$$\text{a) } \frac{1}{b+1} - \frac{b}{1+b}$$

$$\frac{1-b}{b+1}$$

$$\text{b) } 1 - \frac{1}{1+p}$$

$$\frac{p}{1+p}$$

$$\text{c) } \frac{p+q}{p-q} - 2$$

$$\frac{3q-p}{p-q}$$

$$\text{d) } \frac{r}{s-r} + \frac{s}{r+s}$$

$$\frac{r^2+s^2}{(s-r)(r+s)}$$

$$\text{e) } \frac{3}{x-4} + \frac{2}{4-x}$$

$$\frac{1}{x-4}$$

$$\text{f) } \frac{3n}{n-2} + \frac{3}{2-n}$$

$$\frac{3n-3}{n-2}$$

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