

Simplifying Complex Fractions Worksheet

$$\textcircled{1} \quad \frac{5}{x-1} - \frac{3}{x+1}$$

=

$$\textcircled{5} \quad \frac{x^2\left(\frac{2}{x^2} + \frac{1}{x}\right)}{x^2\left(\frac{4}{x^2} + \frac{1}{x}\right)}$$

=

$$\textcircled{2} \quad \frac{\frac{1}{x} - \frac{1}{x-1}}{1 - \frac{1}{x}}$$

=

$$\textcircled{6} \quad \frac{\frac{1}{2} + \frac{1}{3} + \frac{1}{4}}{3 - \frac{4}{5}}$$

=

$$\textcircled{3} \quad \frac{5 - \frac{2}{5}}{6 + \frac{1}{3}} =$$

=

$$\textcircled{7} \quad \frac{\frac{4}{5}}{\frac{1}{5} + \frac{2}{3}}$$

=

$$\textcircled{4} \quad \frac{x + \frac{2d}{3ac}}{x + \frac{3d}{3ac}}$$

=

$$\textcircled{8} \quad \frac{\frac{1}{4x} + \frac{2}{3x}}{\frac{1}{4x} + \frac{2}{3x}}$$

=

Answers

$$\textcircled{1} \frac{2(x+4)}{(x-1)(x+1)}$$

$$\textcircled{5} \frac{2+x}{4-x}$$

$$\textcircled{2} \frac{-1}{(x-1)^2}$$

$$\textcircled{6} \frac{65}{132}$$

$$\textcircled{3} \frac{69}{95}$$

$$\textcircled{7} \frac{12}{13}$$

$$\textcircled{4} \frac{2(3acx+2d)}{3(2acx+3d)}$$

$$\textcircled{8} -7$$