

$$12. \frac{\frac{7}{10} - \frac{3}{5} \cdot 2}{\frac{1}{2}} = \frac{\frac{7}{10} - \frac{6}{10}}{\frac{1}{2}} = \frac{\frac{1}{10}}{\frac{1}{2}}$$

$$\frac{1}{10} \cdot \frac{2}{1} = \frac{2}{10} = \frac{1}{5}$$

$$18. \frac{\frac{x}{2} + \frac{2}{1} \cdot 2}{\frac{x}{2} - \frac{2}{1} \cdot 2} = \frac{\frac{x+4}{2}}{\frac{x-4}{2}}$$

$$\frac{\cancel{2} \cdot \frac{x+4}{\cancel{2}}}{x-4} = \frac{x+4}{x-4}$$

$$\begin{array}{l}
 (2x+1) \frac{x}{1} - \frac{1}{2x+1} \\
 \hline
 (2x+1) \frac{1}{1} - \frac{x}{2x+1} \\
 \hline
 \end{array} = \frac{\frac{(2x+1)x - 1}{2x+1}}{\frac{(2x+1) - x}{2x+1}}$$

$$\frac{2x^2 + x - 1}{\cancel{2x+1}} \cdot \frac{\cancel{2x+1}}{x+1} = \frac{2x^2 + x - 1}{x+1}$$

28.
$$\frac{3/1}{\frac{4}{3}}$$

$$3 \cdot \frac{1}{3} - \frac{4}{3}$$

$$\frac{3/1}{\frac{3-4}{3}}$$

$$\frac{\frac{3}{1}}{-\frac{1}{3}}$$

$$\frac{3}{1} \left(-\frac{3}{1} \right) = -9$$

$$30. \frac{\frac{m+2}{m-2}}{\frac{2m+4}{m^2-4}}$$

$$\frac{m+2}{m-2} \cdot \frac{m^2-4}{2m+4}$$

$$\frac{\cancel{m+2}}{\cancel{m-2}} \cdot \frac{(m+2)\cancel{(m-2)}}{2\cancel{(m+2)}} = \frac{m+2}{2}$$

$$34. \frac{x^2 + \frac{6}{x}}{\frac{x^2}{x^2} - \frac{9}{x^2}}$$

$$\frac{\frac{2x+6}{x}}{\frac{x^2-9}{x^2}}$$

$$\frac{2x+6}{\cancel{x}} \cdot \frac{\cancel{x}}{x^2-9}$$

$$\frac{2(\cancel{x+3})x}{(\cancel{x+3})(x-3)}$$

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

$$38. \frac{\frac{2 \cdot 2}{2x} + \frac{xx}{2x}}{\frac{2 \cdot 2}{2x} - \frac{xx}{2x}}$$

$$\frac{\frac{4 + x^2}{2x}}{\frac{4 - x^2}{2x}}$$

$$\frac{\frac{4+x^2}{\cancel{2x}}}{\frac{\cancel{2x}}{4-x^2}}$$

$$\frac{4+x^2}{4-x^2}$$

$$40. \frac{\frac{(x+1)4}{(x+1)x} + \frac{(x)x}{(x+1)x}}{\frac{(x+6)1}{(x+6)2x} + \frac{1(2x)}{(x+6)2x}} = \frac{\frac{4(x+1) + x^2}{x(x+1)}}{\frac{(x+6) + 2x}{2x(x+6)}}$$

$$\frac{4x + 4 + x^2}{x(x+1)} \cdot \frac{2x(x+6)}{3x+6}$$

$$\frac{x^2 + 4x + 4}{x+1} \cdot \frac{2(x+6)}{3(x+2)}$$

$$\frac{(x+2)(x+2)}{x+1} \cdot \frac{2(x+6)}{3(x+2)} = \frac{2(x+2)(x+6)}{3(x+1)}$$

