

$$\textcircled{1} \frac{\frac{1}{5}(x-4)}{\frac{10x}{2x}}$$

$$\textcircled{2} \frac{\frac{1}{3}m^2(m+2)}{\frac{6m(m+2)}{2}}$$

$$\frac{m}{2}$$

$$\textcircled{3} \frac{\frac{4 \cdot 1}{12x} \cdot \frac{2y^2}{4x^4}}{\frac{7y^2}{10} \cdot \frac{15x^3}{5x^2}}$$

$$\frac{8y^2}{5x^2}$$

$$\textcircled{4} \frac{x(x+3)}{x(x-2)} \cdot \frac{(x+1)(x-2)}{(x-3)(x+3)}$$

$$\textcircled{5} \frac{(x+5)(x-2)}{2(x+6)} \cdot \frac{x+6}{(x+3)(x+5)}$$

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

$$\textcircled{6} \frac{(x-2)(x+1)}{(x-2)(x+2)} \cdot \frac{1}{2(\cancel{2/x}) + 1}$$

$$\textcircled{8} \frac{10^2}{5m} = \frac{2}{m}$$

$$\textcircled{10} \frac{x+1}{2 \cdot 2x^2} + \frac{3}{4} \cdot x$$

$$\frac{2x+2}{4x^2} + \frac{3x}{4x^2}$$

$$\textcircled{11} \frac{5x-2}{4x-8} + \frac{-3x+2}{4x-8}$$

$$\frac{2x-4}{4x-8} = \frac{2(x-2)}{4(x-2)} = \frac{1}{2}$$

$$\textcircled{12} \frac{t^2}{t-2} + \frac{4(-1)}{(2-t)(-1)}$$

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

$$\textcircled{13} \frac{x}{(x+4)(x-4)} - \frac{2x}{(x-4)(x+4)}$$

$$\frac{5x+2}{4x^2}$$

$$\frac{t^2-4}{t-2} = \frac{(t+2)(t-2)}{(t-2)}$$

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

$$\frac{x^2+2x}{(x-4)(x+4)} = \frac{x(x+2)}{(x-4)(x+4)}$$

Part 2:

$$\textcircled{1} 2(-2)^2(3) - (-2)$$

$$\frac{2(4)(3) - (-2)}{24+2}$$

$$26$$

$$\textcircled{2} (5x^2-3x+2) - (x^2+x-6)$$

$$\frac{5x^2-3x+2-x^2-x+6}{4x^2-4x+8}$$

$$\textcircled{4} (x+2)(x^2+3x-1)$$

$$\frac{x^3+3x^2-1x}{2x^2+6x-2}$$

$$\frac{x^3+5x^2+5x-2}{2x^2+6x-2}$$

$$\textcircled{5} F O I L$$

$$\frac{5x^2+4x-15x-12}{5x^2-11x-12}$$

$$\textcircled{6} (3x-4)(3x-4)$$

USE FOIL

$$\textcircled{7} 1 \cdot xy^2 - x^2y^3$$

$$xy^2(1-xy)$$

$$\textcircled{9} \frac{2(x^2-16)}{2(x+4)(x-4)}$$

$$\textcircled{11} 27 - x^3$$

$$\textcircled{3} 3 \cdot 3 \quad \textcircled{X} x \cdot x$$

$$\frac{(3-x)(9+3x+x^2)}{3^2 \quad 3 \cdot x \quad (x)^2}$$

$$\textcircled{13} \frac{2(y^3+8)}{\textcircled{0}y \quad \textcircled{2}2 \cdot 2}$$

$$2(y+2)(y^2-2y+4)$$