

$$\textcircled{1} \quad \frac{b-a}{ab} + \frac{b-a}{b^2} = \frac{b^2 - ab + ab - a^2}{ab^2} = \frac{b^2 - a^2}{ab^2}$$

$$\textcircled{2} \quad x^2 + \frac{2x^2}{x-2} = \frac{x^3 - 2x^2 + 2x^2}{x-2} = \frac{x^3}{x-2}$$

$$\textcircled{3} \quad \frac{15b^2 - 2}{10b^2} + \frac{5+b}{5b^3} = \frac{15b^3 - 2b + 10 + 2b}{10b^3} = \frac{15b^3 + 10}{10b^3} =$$

$$= \frac{5(3b^3 + 2)}{10b^3} = \frac{3b^3 + 2}{2b^3}$$

$$\textcircled{4} \quad x-3 - \frac{x^2-x}{x+2} = \frac{x^2 + 2x - 3x - 6 - x^2 + x}{x+2} = -\frac{6}{x+2}$$

$$\textcircled{5} \quad \frac{11+3a^2}{33a^2b} - \frac{2b^2+11}{22ab^3} = \frac{2b^2(11+3a^2) - 3a(2b^2+11)}{66a^2b^3} =$$

$$= \frac{22b^2 + 6a^2b^2 - 6ab^2 - 33a}{66a^2b^3} = \frac{11(2b^2 - 3a) + 6ab^2(a-1)}{66a^2b^3}$$

$$\textcircled{6} \quad \frac{2y^3-3}{y^2} - 2y+3 = \frac{2y^3-3-2y^3+3y^2}{y^2} = \frac{3y^2-3}{y^2} = \frac{3(y^2-1)}{y^2}$$