

6.3 - Add + Sub.

(1) $\frac{8}{3x^3y} + \frac{4}{9xy^3}$

$\frac{8(3y^2)^+4(x^2)}{9x^3y^3} = \frac{24y^2+4x^2}{9x^3y^3}$

(2) $3x - \frac{x^2-5x}{x^2-2}$

$\frac{3x(x^2) - (x^2-5x)}{(x^2-2)} = \frac{3x^3-x^2+5x}{x^2-2}$

(6) $\frac{6y^{-4}}{y^2-5} + \frac{3y+1}{y^2-5}$

$\frac{9y^{-3}-3}{y^2-5}$

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

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

(3) $\frac{5x}{2y+4} - \frac{6}{y^2+2y}$

$\frac{5xy-12}{2y(y+2)}$

(8) $\frac{x^2}{5} + \frac{x^2}{5}$

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

(4) $\frac{7}{5y+25} - \frac{4}{3y+15}$

$\frac{21-20}{15(y+5)} = \frac{1}{15(y+5)}$

(9) $\frac{y}{4y+8} - \frac{1}{y^2+2y}$

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

(5) $\frac{7}{2xy^2} + \frac{3}{8x^2y}$

$\frac{7(4x)+3(y)}{8x^2y^2} = \frac{28x+3y}{8x^2y^2}$