Mini-Quiz 5

Name:

[10] Leave answers as *reduced* fractions. No credit will be given for non-reduced answers or mixed numbers. Let a, b, c, and d be real numbers, and assume no combination of them on the sheet equals zero.

$-1 + \frac{1}{3}$ $\qquad$ $\frac{2}{\frac{1}{2}} + \frac{1}{3}$ $\qquad$ $\frac{a}{b} + \frac{-3}{ab}$ $\qquad$ $\frac{2}{a} + \frac{2}{5b}$

$\frac{1}{a} + \frac{1}{a^3}$ $\qquad$ $\frac{a}{b} + \frac{1}{a^2 b}$ $\qquad$ $\frac{3}{2a} + \frac{1}{8}$ $\qquad$ $\frac{a}{b} + \frac{1}{a}$

$\frac{a}{b^2} + \frac{1}{ab}$ $\qquad$ $\frac{c-d}{d-c} + \frac{d-c}{c-d}$ $\qquad$ $\frac{3}{ad} + \frac{2}{\frac{1}{3}}$ $\qquad$ $\frac{c}{d} + \frac{3}{\frac{1}{2}d}$

$\frac{1}{x+2} + \frac{1}{a}$ $\qquad$ $\frac{1}{(x+4)} + \frac{1}{(x+4)^2}$ $\qquad$ $\frac{x}{x+3} + \frac{x}{x+3}$ $\qquad$ $\frac{x+1}{x-1} + \frac{x}{x+1}$

$\frac{1}{(x+h)^2} + \frac{1}{x+h}$ $\qquad$ $\frac{1}{x+h} + \frac{1}{x-h}$ $\qquad$ $\frac{x-h}{x+h} + \frac{2}{x}$ $\qquad$ $\frac{1}{(x^2-h^2)} + \frac{(x-1)}{(x+h)}$