

$$\begin{array}{l}
 1) \quad 2(x+2) \quad (x-y)/(x+y) \\
 \hline
 2x+4 \quad \cdot \quad x^2-y^2 \\
 x+y \quad \quad 4x+8 \\
 \hline
 4(x+2)
 \end{array}
 = \cancel{B} \quad \frac{2(x-y)}{4}$$

$$\begin{array}{l}
 2) \quad (y+5)/(y+3) \quad 4/y=5 \\
 \hline
 y^2+8y+15 \quad \cdot \quad 4y-20 \\
 y^2-25 \quad \quad 4x+8 \\
 \hline
 (y-5)/(y+5) \quad 4(x+2)
 \end{array}
 = \cancel{B} \quad \frac{(y+3)}{x+2}$$

$$\begin{array}{l}
 3) \quad (x+4)/(x^2-4x+16) \quad 6/x=4 \\
 \hline
 x^3+64 \quad \cdot \quad 6x-24 \\
 x^2-16 \quad \quad x^3-4x^2+16x \\
 \hline
 (x-4)/(x+4) \quad x/(x^2-4x+16)
 \end{array}
 = \cancel{B} = \frac{6}{x}$$

$$\begin{array}{l}
 4) \quad 15x-2/(x+3) \quad 2/(5x+2) \\
 \hline
 5x^2+13x-6 \quad \cdot \quad 10x+4 \\
 4-25x \quad \quad 9-x^2 \\
 \hline
 (2-5x)/(2+5x) \quad (x-3)/(x+3)
 \end{array}
 = \cancel{B} = \frac{2}{(x-3)}$$