

$$\frac{54v^2}{42v^3} = \boxed{\frac{9}{7x}}$$

$$2. \frac{-42p^2}{63p^2} = \boxed{-\frac{2}{3}}$$

$$3. \frac{n^2 + 2n - 48}{6 - n} \xrightarrow[8 \times -6]{-48} \frac{(n+8)(n-6)}{6-n}$$

$$4. \frac{x^2 - x - 90}{x+9} \xrightarrow[9 \times -10]{-90} \frac{(x+9)(x-10)}{(x+9)}$$

$$\frac{(n+8)(-1)(-n+6)}{(6-n)} = \frac{-n-8}{-1(n+8)} \rightarrow \boxed{-n-8}$$

$$= \boxed{x-10}$$

$$5. \frac{x^2 - 11x + 24}{2x - 6} \xrightarrow[-3 \times -8]{24} \frac{(x-3)(x-8)}{2(x-3)}$$

$$6. \frac{8(5n-8)}{16(n+2)} = \boxed{\frac{5n-8}{2(n+2)}}$$

$$= \boxed{\frac{x-8}{2}}$$

$$\begin{matrix} 7 \times 9 \\ 9 \times 1 \\ -8 \\ -12 \\ 9 \times 8 \\ -1 \end{matrix} \frac{(x-9)(x+1)}{(x-9)(x+8)} = \boxed{\frac{(x+1)}{(x+8)}}$$

$$\begin{matrix} 8 \times 12 \\ 6 \times 2 \\ 8 \\ 6 \times 1 \\ 7 \end{matrix} \frac{(b+6)(b+2)}{(b+6)(b+1)} = \boxed{\frac{b+2}{b+1}}$$

$$9. \frac{14(x+2)}{7(3x+5)} = \boxed{\frac{2(x+2)}{3x+5}}$$

$$\begin{matrix} 10 \times 20 \\ -10 \times -2 \\ -12 \\ -20 \\ -2 \times 10 \\ 8 \end{matrix} \frac{(x-10)(x-2)}{(x-2)(x+10)} = \boxed{\frac{x-10}{x+10}}$$