

$$\frac{\cancel{8} \times \cancel{2} \times \cancel{5} \times \cancel{10}}{\cancel{-4} \times \cancel{-6}} \cdot \frac{(x-4)(x+2)(x+5)}{(x-8)(x+5)(x-4)}$$

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

$$2. \frac{(k+8)(10)}{(k-9)(k+8)(k-7)} \cdot \frac{\cancel{-7} \times \cancel{9}}{\cancel{7} \times \cancel{9}}$$

$$\boxed{\frac{10}{(k-9)(k-7)}}$$

$$3. \frac{3(x+4)(x+6)}{(x-4)(x-6)(x+4)(x+6)} \cdot \frac{\cancel{-4} \times \cancel{24} \times \cancel{6} \times \cancel{4}}{\cancel{-10} \times \cancel{10}}$$

$$\boxed{\frac{3}{(x-4)(x-6)}}$$

$$4. \frac{(10)(7x)(x-5)}{(9x^2)(x-5)(7x)(x+4)}$$

$$\boxed{\frac{10}{9x^2(x+4)}}$$

$$5. \frac{6v(v-1)(v+3)}{(v+3)(v+5)(v-1)} \cdot \frac{\cancel{5} \times \cancel{5}}{\cancel{4} \times \cancel{-1}}$$

$$\boxed{\frac{6v}{v+5}}$$

$$6. \frac{9(7m+5)(2)}{(2)(4m)(7m+5)}$$

$$\boxed{\frac{9}{4m}}$$

$$7. \frac{(v-8)(v-3)(v-2)(v-1)}{(v-3)(v-2)(v-7)(v-1)} \cdot \frac{\cancel{-3} \times \cancel{24} \times \cancel{8}}{\cancel{-3} \times \cancel{-11}} \cdot \frac{\cancel{6} \times \cancel{2}}{\cancel{-3} \times \cancel{-5}} \cdot \frac{\cancel{-7} \times \cancel{7}}{\cancel{-8} \times \cancel{-1}} \cdot \frac{\cancel{-2} \times \cancel{2}}{\cancel{-3} \times \cancel{-1}}$$

$$\boxed{\frac{v-8}{v-7}}$$

$$8. \frac{\cancel{63}(x+1)(9)(3-2x)}{4(2x-3)(\cancel{63})(x+1)}$$

$$\frac{9(3-2x)}{4(2x-3)} = \frac{9(3-2x)}{-4(-2x+3)} = \boxed{-\frac{9}{4}}$$

$$9. \frac{(r-7)(3r)(r+1)}{(r+1)(r-1)(r-7)} = \boxed{\frac{3r}{r-1}}$$

$$10. \frac{\cancel{6}(x+8)}{(\cancel{6})(8x)} = \boxed{\frac{x+8}{8x}}$$