

$$1. \frac{(m+2)(\cancel{m+5})}{(\cancel{m+5})(m-3)}$$

$$= \frac{m+2}{m-3}$$

$$2. \frac{(n+7)(\cancel{n-3})}{2(n+3)(\cancel{n-3})}$$

$$= \frac{n+7}{2n+6}$$

$$3. \frac{\cancel{a}(a+1)(a-7)}{\cancel{a}^2(a+1)}$$

$$= \frac{a-7}{a}$$

$$4. \frac{(\cancel{x-5})(x+2)\cancel{3}(\cancel{x+1})}{(\cancel{x+1})\cancel{6}(\cancel{x-5})} =$$

$$\frac{x+2}{2}$$

$$5. \frac{(\cancel{2n-3})(\cancel{n-5})\cancel{2n}(3-2n)}{\cancel{4n}(\cancel{2n-3})(\cancel{n-5})(n-5)}$$

$$= \frac{3-2n}{2n-10}$$

$$6. \frac{\cancel{m}^m (m-7)(m+3)}{\cancel{m}(m-7)} =$$

$$m^2 + 3m$$

$$7. \frac{(\cancel{n-4})(n+3)\cancel{n}^n(2n-9)}{(2n-3)(n-6)\cancel{3n}(\cancel{n-4})}$$

$$= \frac{2n^3 - 3n^2 - 27n}{2n^2 - 15n + 18}$$