

Division

$$1) \begin{array}{r} 2y-14 \\ y^2-2y-35 \end{array} \div \begin{array}{r} 6y-30 \\ y^2-25 \end{array}$$

$$\begin{array}{r} 2 \overline{) 2y-14} \\ y^2-2y-35 \\ (y-7)(y+5) \end{array} \quad \begin{array}{r} (y-5)(y+5) \\ * y^2-25 = R // \frac{1}{3} \\ 6y-30 \\ 6(y-5) \\ 3 \end{array}$$

$$2) \begin{array}{r} 9x-27 \\ 15x+30 \\ 15(x+2) \\ 3 \end{array} \div \begin{array}{r} 7(x-2) \\ 6x^2-18 \\ 6x(x-3) \\ 2 \end{array} = R // 7(x-2)$$

$$3) \begin{array}{r} 25x^3y^4 \\ 36m^4n \\ 18 \\ 9 \\ 1 \end{array} \div \begin{array}{r} 18a^2n \\ 10x^2y^3 \\ 8 \end{array} = R // \frac{1xy}{1m}$$

$$4) \begin{array}{r} 3 \\ 6 \cancel{x} 4 \\ 5 \cancel{4} \bar{2} \\ 1 \end{array} * \begin{array}{r} 5 \\ 10 \cancel{4} \\ 3 \cancel{x} \\ 1 \end{array} = R// \begin{array}{r} 3 \\ 1 \end{array} /$$

$$5) \begin{array}{r} 1 \\ 3 \cancel{m} \\ 8 \cancel{m} \bar{2} \\ \cancel{x} \\ \cancel{x} \\ 1 \end{array} * \begin{array}{r} 2 \bar{2} \\ 8 \\ 16 \cancel{m} \bar{2} \\ 9 \cancel{m} \\ 3 \end{array} = R// \begin{array}{r} 2 \\ 3 \end{array} /$$