

The *Bow tie method*

$$\begin{aligned}\frac{2}{5} - \frac{1}{3} &= \frac{2(3) - 1(5)}{5(3)} \\ &= \frac{6 - 5}{15} \\ &= \frac{1}{15}\end{aligned}$$

Could use the *Bow tie method*

$$\begin{aligned}\mathbf{20.} \quad \frac{2}{3x-5} - \frac{1}{4} &= \frac{2(4) - 1(3x-5)}{(3x-5)(4)} \\ &= \frac{8 - 3x + 5}{12x - 20} \\ &= \frac{13 - 3x}{12x - 20}\end{aligned}$$

Express each of the following as a single fraction:

$$\begin{aligned} 21. \quad & \frac{3}{2x-7} - \frac{5}{3x-5} \\ & = \frac{3(3x-5) - 5(2x-7)}{(2x-7)(3x-5)} \\ & = \frac{9x - 15 - 10x + 35}{(2x-7)(3x-5)} \\ & = \frac{-x + 20}{(2x-7)(3x-5)} \end{aligned}$$