

Long Division

$$\frac{4923}{5} \Rightarrow$$

$$\begin{array}{r} 0984 \\ 5 \overline{) 4923} = 984 + \frac{3}{5} \\ \underline{-0} \downarrow \\ 49 \\ \underline{-45} \downarrow \\ 42 \\ \underline{-40} \downarrow \\ 23 \\ \underline{-20} \\ 3 \text{ STOP} \end{array} = 984\frac{3}{5}$$

$$\begin{array}{r} 0984.6 \\ 5 \overline{) 4923.0} = 984.6 \\ \underline{-0} \downarrow \\ 49 \\ \underline{-45} \downarrow \\ 42 \\ \underline{-40} \downarrow \\ 23 \\ \underline{-20} \downarrow \\ 30 \\ \underline{-30} \\ 0 \text{ STOP} \end{array}$$

$$\frac{x^2+2x+2}{x+1} \Rightarrow \begin{array}{r} x+1 \\ x+1 \overline{) x^2+2x+2} = x+1 + \frac{1}{x+1} \\ \underline{-(x^2+x)} \downarrow \\ 0 \quad x+2 \\ \underline{-(x+1)} \\ 0 \quad 1 \text{ STOP} \end{array}$$