

Solutions

Each answer shows the steps, then the **result**.

2.1

- $\frac{0}{0}$ and $\frac{\infty}{\infty}$

2.2

- $\lim_{x \rightarrow 0} \frac{\cos x}{1} = 1$

2.3

- differentiate each separately, then take the limit of the new quotient

3.1 B

3.2 B

3.3

(a)

- $\frac{0}{0}$

(b)

- $\frac{e^x}{1}$

(c)

- 1