

Solutions

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

2.1

- $\sec^2 x$

2.2

- $\sec x \tan x$

2.3

- $\frac{d}{dx}[\cot x] = -\csc^2 x; \frac{d}{dx}[\csc x] = -\csc x \cot x$

3.1 A

3.2 B

3.3

(a)

- $\sec^2 x$

(b)

- $-\csc^2 x$

(c)

- $-\csc x \cot x$