

Solutions

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

2.1

- $(f^{-1})'$

(a)

- $= \frac{1}{f'(f^{-1})}$

(a)

- $)$

2.2

- $f^{-1}(5) = 2$, so $(f^{-1})'(5) = \frac{1}{f'(2)} = \frac{1}{4}$

2.3

- they are reciprocals of each other

3.1 B

3.2 B

3.3

(a)

- 3

(b)

- $\frac{1}{f'(3)}$

(c)

- $\frac{1}{2}$