

3 The second derivative and inverse functions – Part 2 — Answers

Answers

Work through these after you have tried the questions yourself.

2.1 the derivative of the derivative – you differentiate the function twice.

2.2 $f'(x) = 4x^3$, then $f''(x) = 12x^2$.

2.3 the first derivative is the velocity; the second derivative is the acceleration.

2.4 it is the reflection of the original graph in the line $y = x$.

2.5 $f'(x) = 2x$, so $f''(x) = 2$.