

2 The power rule — Part 2 — Answers

Answers

Work through these after you have tried the questions yourself.

2.1 $\frac{d}{dx} x^4 = 4x^3.$

2.2 $7x^6.$

2.3 $\frac{d}{dx} (x^2 + 5x) = 2x + 5.$

2.4 $\frac{d}{dx} (3x^2) = 6x.$

2.5 $f'(x) = 2x$, so at $x = 4$ the slope is $2 \times 4 = 8.$