

5 Increasing, decreasing, and turning points – Part 1 —Answers

Answers

Work through these after you have tried the questions yourself.

2.1 where $f'(x) > 0$ the function is increasing; where $f'(x) < 0$ it is decreasing.

2.2 the derivative is zero ($f'(x) = 0$).

2.3 $f'(x) = 2x - 6$; setting $2x - 6 = 0$ gives $x = 3$.

2.4 $f'(x) = 2x + 2 = 0$ gives $x = -1$.

2.5 check the slope just before and after: positive-to-negative is a maximum, negative-to-positive is a minimum.