



The line passing through (1, p) and (5, 1) has a gradient of 0.75

Find p.

Rationalise and simplify

$$\frac{15}{7\sqrt{5}}$$

$$f(x) = 3x + a$$

$$g(x) = ax + 2$$

$$fg(x) = -6x + b$$

a and b are constants

Work out the values of a and b

A quadratic sequence is

200 254 304 350 ...

Work out the nth term

Which term of the sequence is the first negative number?