

**23rd June**

Corbettmaths

A(-1, -13) and B(p, q) are points on a straight line with gradient  $-\frac{7}{2}$

Work out one possible pair of integer values of p and q.

Simplify

$$\sqrt{500} - 2\sqrt{45}$$

$$f(x) = 5x - 2$$

The range of  $f(x)$  is  $-11 \leq f(x) \leq 18.5$

Work out the domain of  $f(x)$

$(x - a)$  is a factor of  $x^3 - 2ax^2 - 22ax + 96$

Show  $a = 2$

Solve

$$x^3 - 4x^2 - 44x + 96 = 0$$