

16th April

Corbettmaths

The equation $x^2 + 5kx - k = 0$
has equal roots.

Find the value of k

Describe fully the single
transformation that maps the graph
of

$$y = \frac{1}{x} \quad \text{onto} \quad y = \frac{4}{x}$$

Evaluate

$$\sum_{r=10}^{50} (2 + 7r)$$

The points A and B have
coordinates (5, 2) and (9, 10)
respectively.

Find the equation of Line L1 which
is perpendicular to AB and passes
through the midpoint of AB

Show the line L1 does not meet the
curve $y = -x^2 - 4$