Name: _____ 5-a-day Core 1

21st May

Corbettmaths

Given

$32 = 4^n$

Write down the value of n

$f(x) = x^3 + 2x \qquad x > 0$

Given $f'(x) = 20$

Find x

A curve C with equation y = f(x) passes through the point (2, 8)

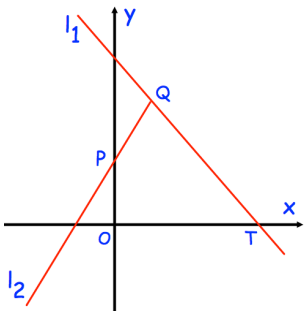
Given

$f'(x) = 6x^2 - 4x + 2$

Use integration to find f(x)

The points P (0, 2) and Q (3, 9) lie on line L2.

Find the length of PQ



Line L1 is perpendicular to L2.

Find the equation of line L2.

Find the area of triangle PQT.