Name: _____ 5-a-day Higher Plus

23rd November

Corbettmaths

Find

$$\frac{16^{2x+3}}{4^x} = 32$$

The Line L passes through (1, 6) and (2, 1).

Find the equation of the line P, perpendicular to L, which passes through (6, –4)

Find the coordinates of the point of intersection of the lines L and P

Find the nth term of

–10 –7 –2 5 …

Prove algebraically that

$(4n + 1)^2 – (2n – 1)$ is an even number

for all positive integer values of n.