

4th April

Corbettmaths

Give that

$$6x^3 - 5x^2 + 10 \equiv A(x - 1)^3 + 2x^3 + Bx^2 + Cx + D$$

Find the values of A, B, C and D

A straight line has equation

$$8x - 5y + 25 = 0$$

A point that has coordinates $(q, q + 1)$ lies on the line

Calculate the value of q

Solve the simultaneous equations

$$2x + 3y + z = 41$$

$$3x + 2y + z = 40$$

$$x + 2y + 3z = 44$$