

11 Kate was asked to factorise $x^2 + 5x + 6$ in the form $(x + a)(x + b)$

Kate says,

“The sum of a and b must be 6 and the product of a and b must be 5”

(a) Explain what is wrong with Kate’s statement.

(1)

(b) Factorise fully $2m^2 - 2$

(2)

(c) Factorise fully $ax + bx - ay - by$

(2)