



Write  $\sqrt[3]{w^7}$  as a single power of  $w$

$$f(x) = x^2 + 3x + 8$$

show that

$$f(x + 1) - f(x) = 2x + 4$$

Solve the inequality

$$2x^2 + 9x + 10 > 0$$

Hannah has some coins.

£1   10p   10p   20p   50p   20p

£1   5p   5p   £1   20p   £1

Hannah has to pay £2.40 for a coffee.  
She picks 3 coins at random, without replacement, from her pocket.

Work out the probability that she has chosen enough money to pay for the coffee.