































- (d) the minimum value of  $f(x)$
  - (e) the value of  $x$  at which  $f(x)$  is a minimum.
10. (a) If  $4y^2 + 3y + b$  is a perfect square, calculate the value of  $b$ .
- (b) By the method of completing the square, solve the equation  $5y^2 = 8y - 2$ .  
Give your answers to 3 significant figures.



### Information

*The word 'quadratic' comes from the Latin word 'quadratum', which means 'a squared figure'.*