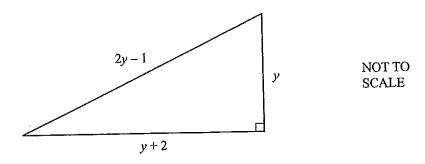
## IGCSE - Applying the quadratic formula

## May 06 Paper 4

(b)

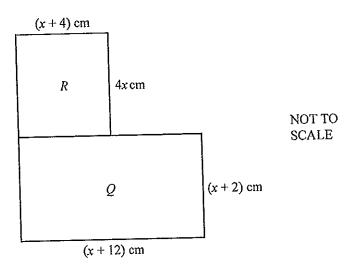


The diagram shows a right-angled triangle. The lengths of the sides are given in terms of y.

- (i) Show that 2y²-8y-3=0.
   (ii) Solve the equation 2y²-8y-3=0, giving your answers to 2 decimal places.
- (iii) Calculate the area of the triangle.

Oct 06 Paper 2

20



- (a) (i) Write down an expression for the area of rectangle R.
  - Answer(a) (i) ......cm<sup>2</sup> [1]
  - (ii) Show that the total area of rectangles R and Q is  $5x^2 + 30x + 24$  square centimetres.
- (b) The total area of rectangles R and Q is  $64 \,\mathrm{cm}^2$ .

  Calculate the value of x correct to 1 decimal place.

[3]

4

[1]