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 $\begin{array}{c} \textbf{MATHEMATICS} \ \, \{\textbf{IGCSE} - \textbf{IX/X}\} \\ \textbf{Quadratic Equation} \end{array}$

Marks: 20

1. Solve the equation
$$y + 1 = \frac{4}{y+1}$$

Answer
$$y =$$
 or $y =$ [5]

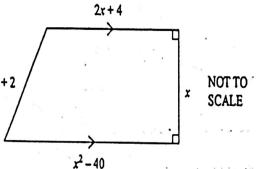
2. Solve
$$3x^2 - 11x - 20 = 0$$

3. Solve x(x+7) = 4, giving the answer correct to 2 decimal places.

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4. The diagram shows a trapezium. Two of its angles are 90° . The lengths of the sides are given in terms of x. The perimeter is 62 units.



i. Write down a quadratic equation in x to show this information.

Simplify your equation.

ii. Solve your quadratic equation.

Answer x = or x = [3]

iii. Write down the only possible value of *x* and explain why the other value is not possible.

Answer $x = \dots$ units and

.....[2