	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATION International General Certificate of Secondary Education	NS Papacambridge.co
CANDIDATE NAME		
CENTRE NUMBER	CANDIDATE NUMBER	
CAMBRIDGE INTERNATIONAL MATHEMATICS		0607/02
Paper 2 (Extended)		May/June 2010
		45 minutes

## **READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

6 N

Do not use staples, paper clips, highlighters, glue or correction fluid.

You may use a pencil for any diagrams or graphs.

DO NOT WRITE IN ANY BARCODES.

Answer all the questions.

## CALCULATORS MUST NOT BE USED IN THIS PAPER.

All answers should be given in their simplest form.

You must show all the relevant working to gain full marks and you will be given marks for correct methods even if your answer is incorrect.

The number of marks is given in brackets [] at the end of each question or part question.

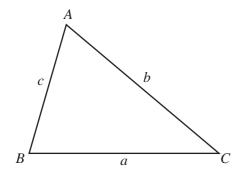
The total number of marks for this paper is 40.

This document consists of **10** printed pages and **2** blank pages.



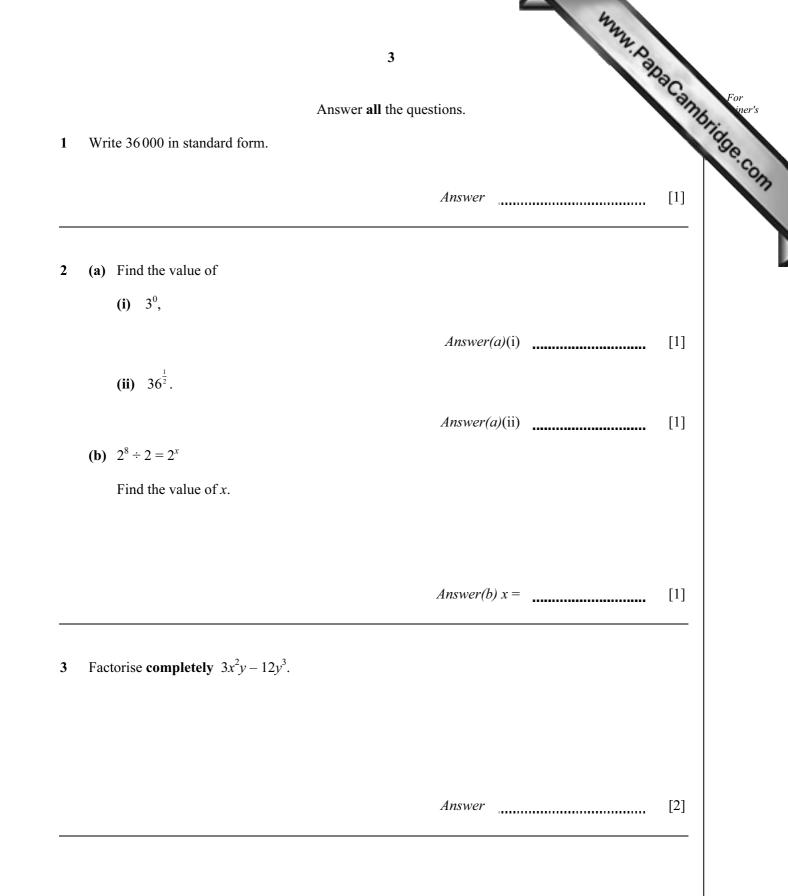
## Formula List

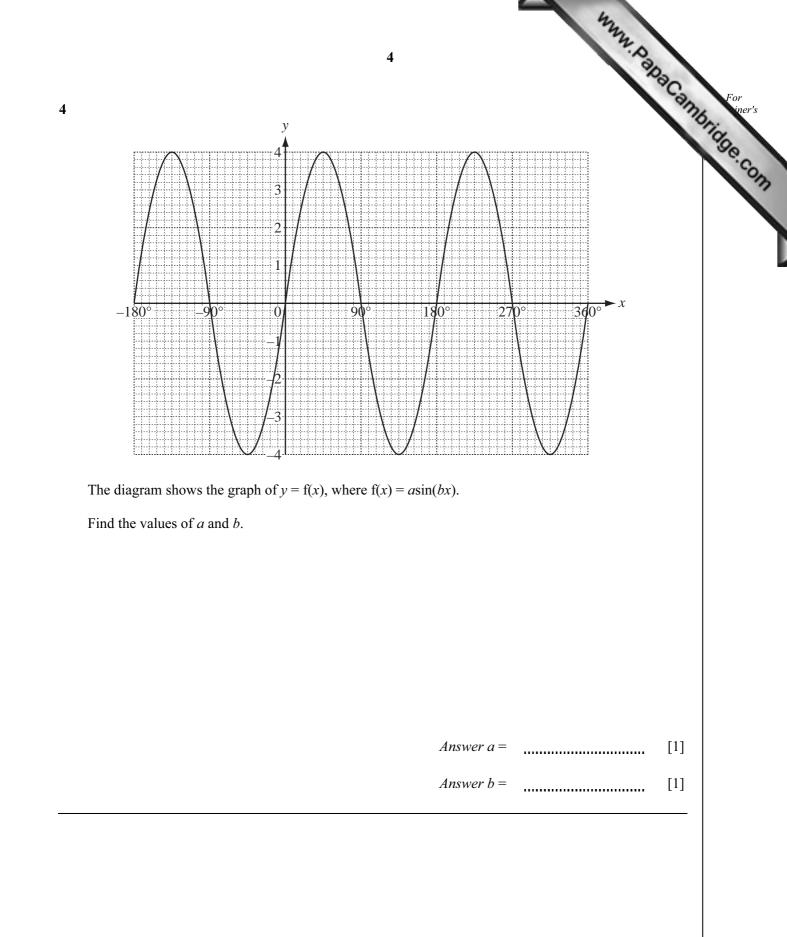
For the equation a	$ax^2 + bx + c = 0$	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Curved surface area, A, of cylinde	er of radius <i>r</i> , height <i>h</i> .	$A=2\pi rh$
Curved surface area, A, of cone o	f radius r, sloping edge l.	$A = \pi r l$
Curved surface area, A, of sphere	of radius <i>r</i> .	$A=4\pi r^2$
Volume, <i>V</i> , of pyramid, base area	a A, height h.	$V=\frac{1}{3}Ah$
Volume, <i>V</i> , of cylinder of radius	r, height h.	$V = \pi r^2 h$
Volume, $V$ , of cone of radius $r$ , he	eight <i>h</i> .	$V = \frac{1}{3}\pi r^2 h$
Volume, $V$ , of sphere of radius $r$ .		$V = \frac{4}{3}\pi r^3$

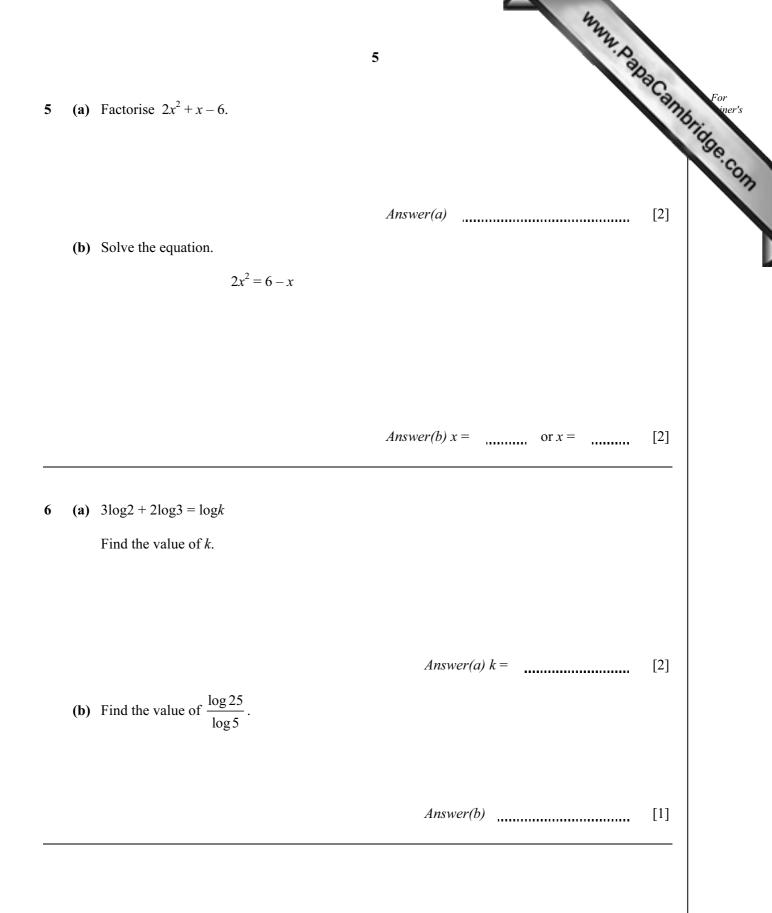


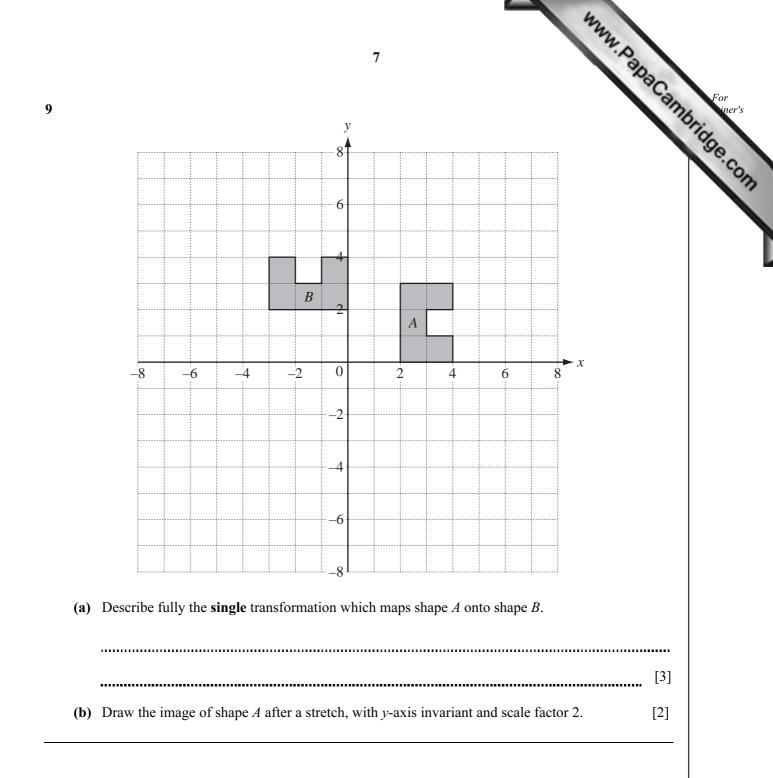
 $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$  $a^2 = b^2 + c^2 - 2bc \cos A$  $\operatorname{Area} = \frac{1}{2}bc \sin A$ 

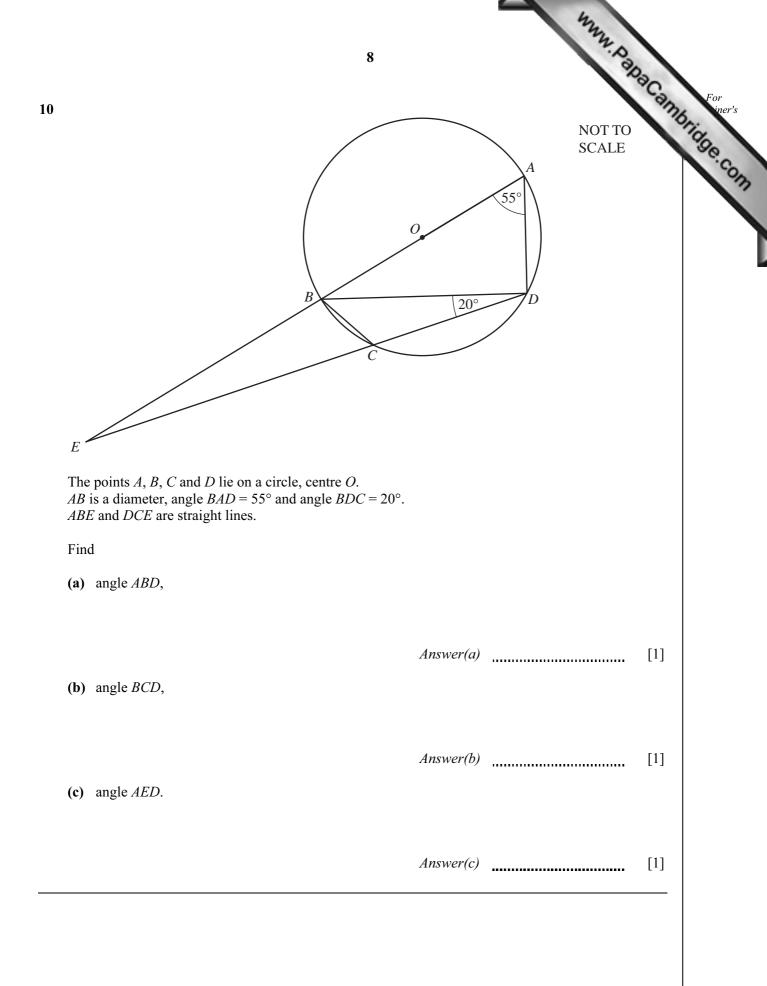
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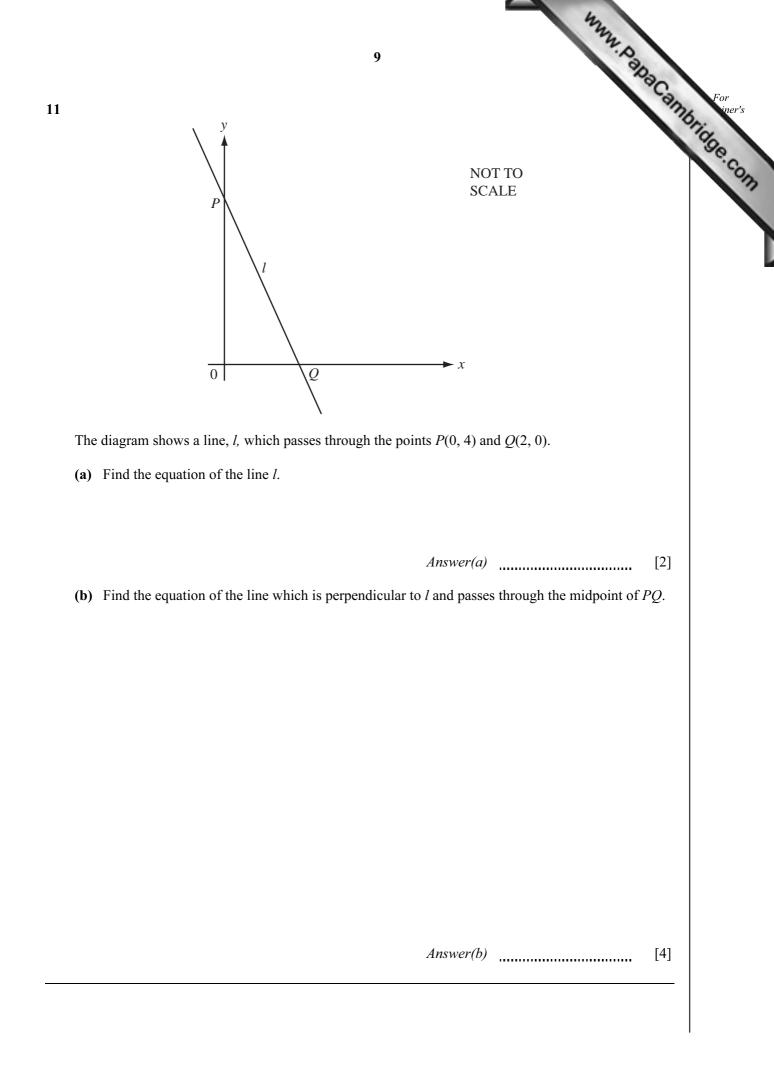


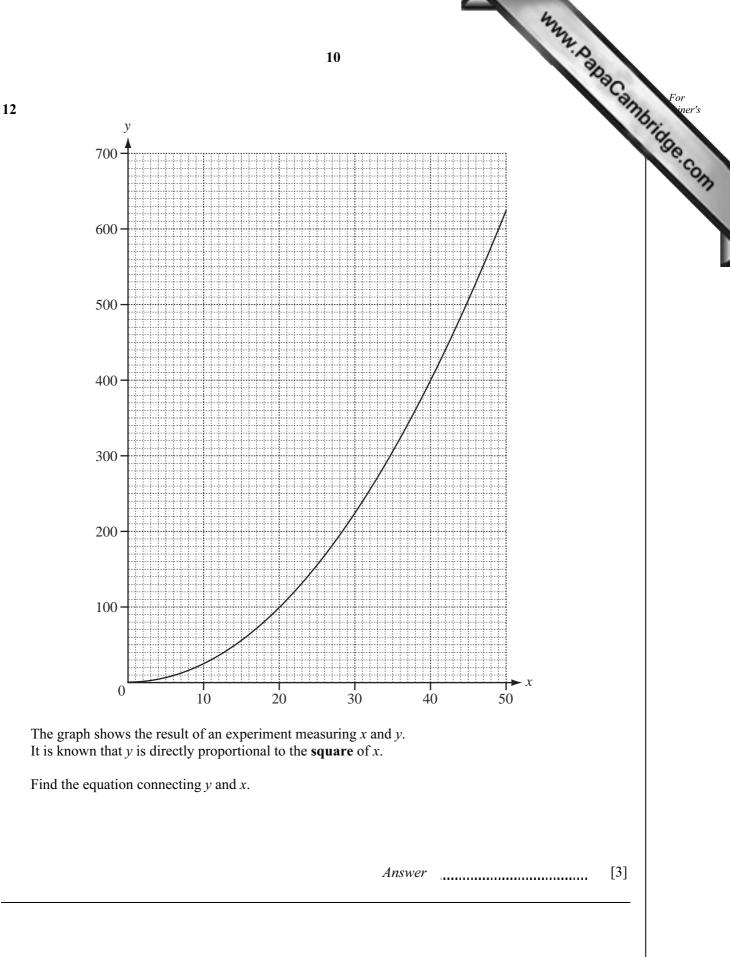














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