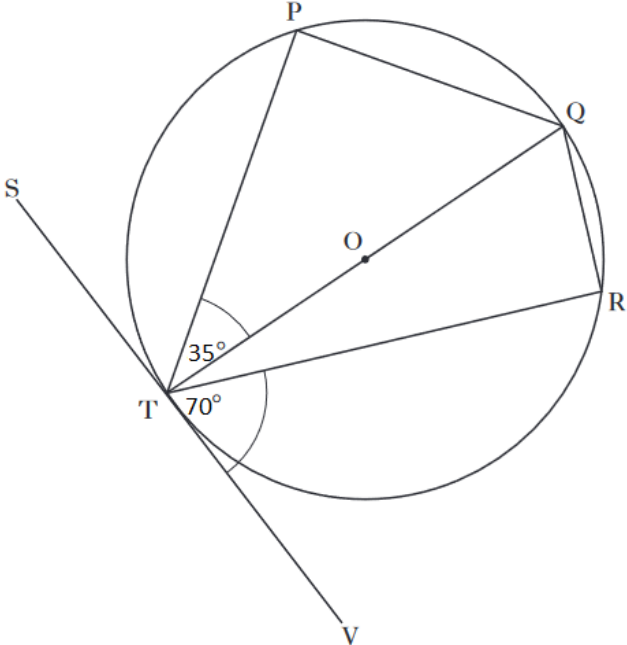
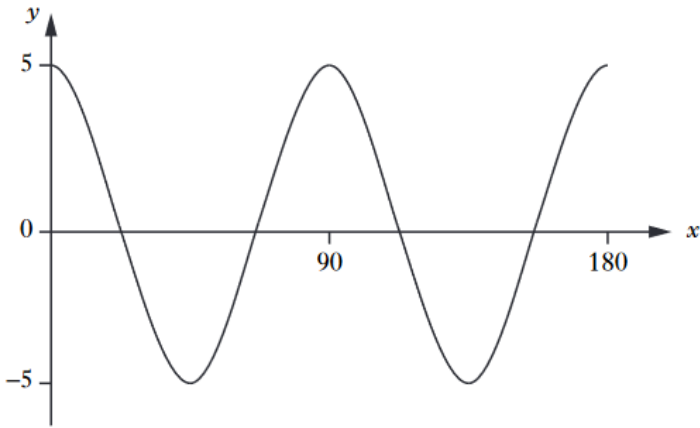
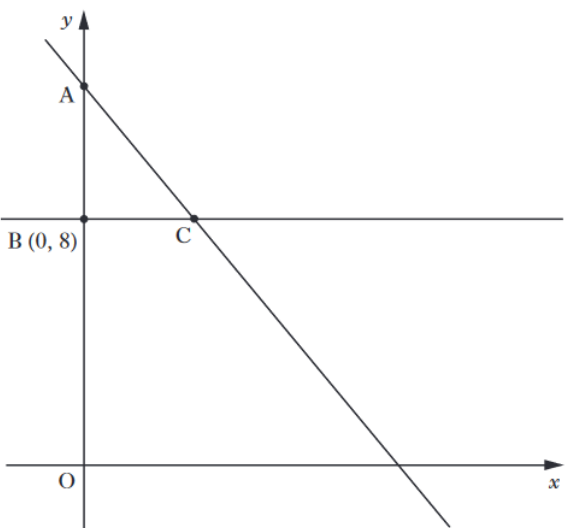
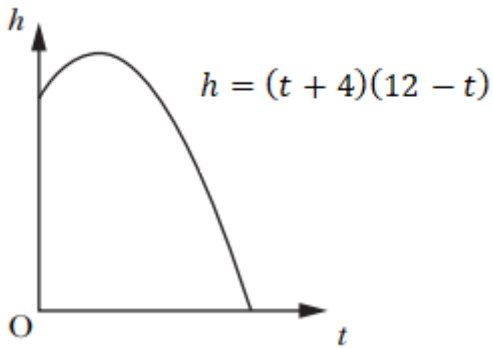


A1	Non-Calculator Paper	30	
1	Evaluate $1\frac{2}{3} + \frac{4}{7}$	2	
2	Multiply out the brackets and collect like terms $(2x - 5)(3x + 10)$	2	
3	Solve the inequality $3 + 2(1 - x) > 15$	3	
4	Factorise fully $5x^2 - 20$	2	
5	<p>The tangent SV touches the circle at T.</p> <p>Angle PTQ is 35° and angle VTR is 70°.</p> <p>Calculate the size of angle PQR</p>		3
6	<p>Charlie takes part in a quiz. He is awarded x points for each correct answer and y points for each wrong answer. During the quiz Charlie gets 24 questions correct and 6 wrong. He scores 60 points.</p> <p>(a) Write down an equation in x and y which satisfies the above condition.</p> <p>Lauryn also takes part in the same quiz. She gets 40 points for 20 correct Answers and 10 wrong answers.</p> <p>(b) Write down a second equation in x and y which satisfies the above condition.</p> <p>(c) Calculate the points given for a correct answer and a wrong answer.</p>	<p>1</p> <p>1</p> <p>4</p>	
7	Given that $\tan 45^\circ = 1$, what is the value of $\tan 135^\circ$	1	
8	Evaluate $9\frac{3}{2}$	2	

9	<p>Part of the graph of $y = a \cos bx^\circ$ is shown below.</p>  <p>State the values of a and b</p>	2
10	<p>The straight line through points A and C has the equation $4x + 3y = 36$.</p>  <p>(a) State the coordinates of point A where the straight line cuts the y-axis.</p> <p>(b) This line meets a line which is parallel to the x-axis and passes through point B (0,8). Find the coordinates of point C where the two lines meet.</p>	2 2
11	<p>The diagram shows the path of a flare after it is fired.</p> <p>The height, h metres above sea level, of the flare is given by $h = (t + 4)(12 - t)$ where t is the number of seconds after firing the flare.</p>  <p>What is the maximum height of the flare?</p>	3