

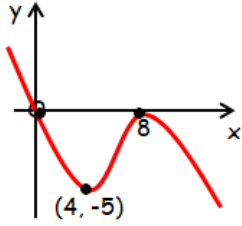


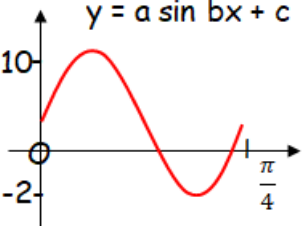



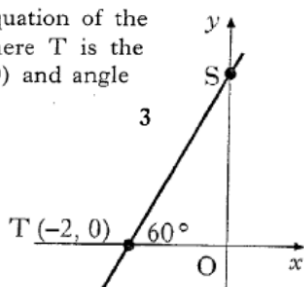
Name:	Date:
<p>Question 1:</p> <p>State a suitable domain, on the set of real numbers, for the following function:</p> $g(x) = \frac{2}{\sqrt{3x+4}}$	 3:1 Silver Outcome 2
<p>Question 2:</p> <p>Triangle RST has vertices R(-3, -5), S(4, 1) and T(8, 2).</p> <p>Calculate the equation of the altitude from R.</p>	 1:8 Silver Outcome 2
<p>Question 3:</p> <p>This diagram shows the graph of $y = f(x)$.</p>  <p>Sketch the graph of $y = f(4x) + 5$.</p>	 4:1 Gold Outcome 1
<p>Question 4:</p> <p>Change 240° into radians.</p>	 5:1 Silver Outcome 2
<p>Question 5:</p> <p>For the graph below, write down the values of a, b and c.</p> 	 5:2 Silver Outcome 2
My score:	

Exam Questions



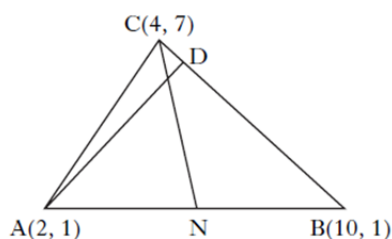
Question 1:

Find the equation of the line ST , where T is the point $(-2, 0)$ and angle STO is 60° .



Question 2:

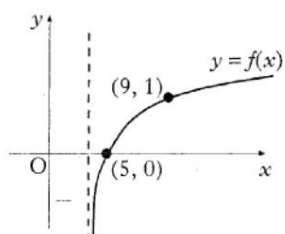
Triangle ABC has coordinates $A(2, 1)$, $B(10, 1)$ and $C(4, 7)$.



- Find the equation of the median CN . 3
- Find the equation of the altitude AD . 3
- The median from (a) and the altitude from (b) intersect at P . Find the coordinates of P . 3
- The point Q lies on AB and has coordinates $(8, 1)$. Show that PQ is parallel to BC . 2

Question 3:

The function f is of the form $f(x) = \log_b(x - a)$. The graph of $y = f(x)$ is shown in the diagram.



- Write down the values of a and b . 2
- State the domain of f . 1

My score: