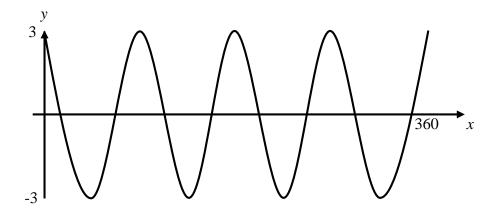
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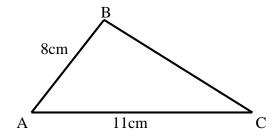
ALBA MATHEMATICS National 5 Course Revision Task Sheet 5



- 1. A function is defined as $g(x) = 3x^{1/2}$. Work out $g(^{1}/_{4})$.
- 2. The graph of y = aCosbx is shown below. Find the values of a and b.



3. The triangle below has an area of 41cm². Find the size of angle BAC.



4. Solve this pair of simultaneous equations.

$$3x - 5y = 20$$
$$2x + 3y = 7$$

- 5. An antique table is valued at £930. Its value is expected to increase by 2.7% per year. How much will it be worth four years later?
- 6. Find the roots of the equation x(x 3) = 28.
- 7. Which pair of lines below are parallel?

$$3x - 2y = 1$$
 $3x = 4 - 2y$ $2y + 3x - 5 = 0$ $2x + 3y + 7 = 0$

- 8. State the equation of the axis of symmetry of the equation $x^2 6x + 1 = 0$
- 9. A restaurant bill amounts to £150.12. This includes a service charge of 8%. Work out the cost before the service charge was added.
- 10. Express as a single fraction in its simplest form.

$$\frac{x+4}{x-2} - \frac{x}{x+1}$$