Name: _____ 5-a-day Higher Plus

20th January

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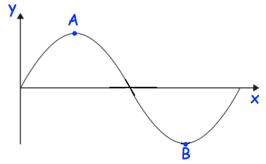


Shown is the curve
$y = \frac{1}{4}\sin x$

Write down the coordinates of A and B

The point (12, 5) lies on a circle with centre (0, 0)

Write down the coordinates of another three points on the circle.

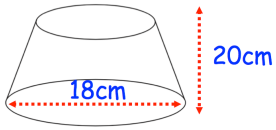
Expand and simplify

$(x - 3)^3$

There are 20 sweets in a box.
There are y chocolate sweets and the rest of the sweets are mints.

Florence takes out two sweets, at random, from the box.

Find an expression, in terms of y, for the probability that Florence takes two chocolate sweets.



Shown is a frustum of a cone that had a perpendicular height of 40cm

Calculate the surface area of the frustum

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y A x B

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20cm
18cm

Shown is a frustum of a cone that had a perpendicular height of 40cm

Calculate the surface area of the frustum

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