

16. A parabola has equation $y = x^2 - 6x + 14$.

(a) Write the equation in the form $y = (x - p)^2 + q$.

(b) Sketch the graph of $y = (x - p)^2 + q$, showing the coordinates of the turning point and the point of intersection with the y-axis.

17. Collin and Jane visit a music shop. Collin buys 3 CDs and 2 DVDs. The total cost of this is £33.

(a) Write down an equation to illustrate this information.

(b) Jane buys 4 CDs and 3 DVDs.

The total cost of this is £47.

Write down an equation to illustrate this information.

(c) Find the cost of a CD and the cost of a DVD.

18. Express: $\frac{3}{x+2} - \frac{2}{x-3}$, $x \neq -2, x \neq 3$ as a single fraction in its simplest form.

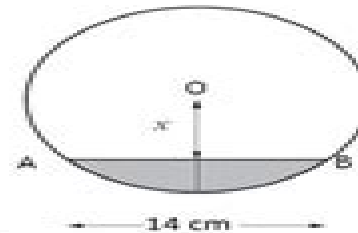
19. A cylindrical pipe has water in it as shown.
The depth of the water at the deepest point is 4 centimetres.

The width of the water surface, AB, is 14 centimetres.

The radius of the pipe is r centimetres. The distance from the centre, O, of the pipe to the water surface is x centimetres.

(a) Write down an expression for x in terms of r .

(b) Calculate r , the radius of the pipe.



20. For the following graphs, find: (i) where the curve cuts the y axis
(ii) co-ords of the turning point (iii) equation of the axis of symmetry.
(a) $y = (x - 1)(x + 7)$ (b) $y = (x + 5)(x - 3)$ (c) $y = x^2 + 6x + 8$

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