23rd August

Express $2x^2 - 12x + 13$	in the form
$a(x-b)^2+c$	

- Corbettmαths

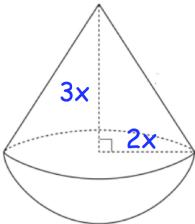
Solve $2x^2 - 12x + 13 = 0$

giving your answers in surd form.

Work out the matrix that transforms the unit square by a 180° rotation about *O*.

The diagram shows a solid made up of a cone and a hemisphere.

Show the volume of the solid is $\frac{28}{3}\pi x^3$



The radius of the cone is 2x The height of the cone is 3x.