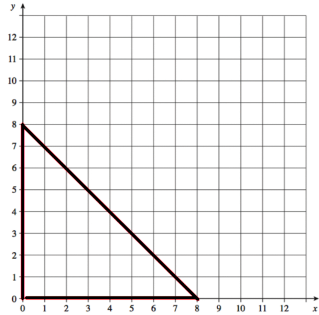




Solve

$$4x^2 - 33x + 8 = 0$$



The triangle OAB is drawn with

O(0, 0) A(0, 8) and B(8, 0)

OAB is translated by the vector

$$\begin{pmatrix} -10 \\ 9 \end{pmatrix}$$

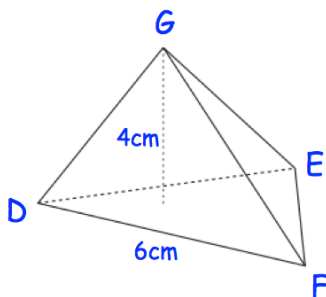
How many invariant points are there?

OAB is enlarged by scale factor 3 with centre (0, 0)

How many invariant points are there?

Factorise fully

$$y - 64y^3$$



DEFG is a triangle based pyramid.

The base DEF is an equilateral triangle with side 6cm.

The perpendicular height of the pyramid is 4cm.

Calculate the volume of the pyramid.