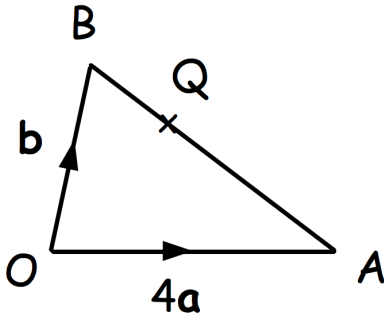


$$f(a) = -2$$

Find the possible values of a

Find $ff(0)$

OAB is a triangle.



Q is a point on AB such that $AQ:QB = 2:1$

Find the vector

$$\vec{BQ}$$

in terms of \mathbf{a} and \mathbf{b}

Show the vector

$$\vec{OQ}$$

is parallel to $2\mathbf{a} + \mathbf{b}$

A circle has an equation of $x^2 + y^2 = 5$

Q $\left(\frac{4}{3}, \frac{\sqrt{29}}{3}\right)$ is a point on the circle.

Find the equation of the tangent to the circle at the point Q.