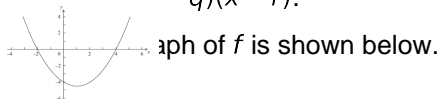


## IB Functions Problem 010

Let  $f(x) = a(x - q)(x - r)$ .



It passes through the points  $(-2; 0)$ ,  $(0; -4)$  and  $(4; 0)$ .

- Find the value of  $q$  and of  $r$ .
- Write down the equation of the axis of symmetry.
- Find the value of  $p$ .