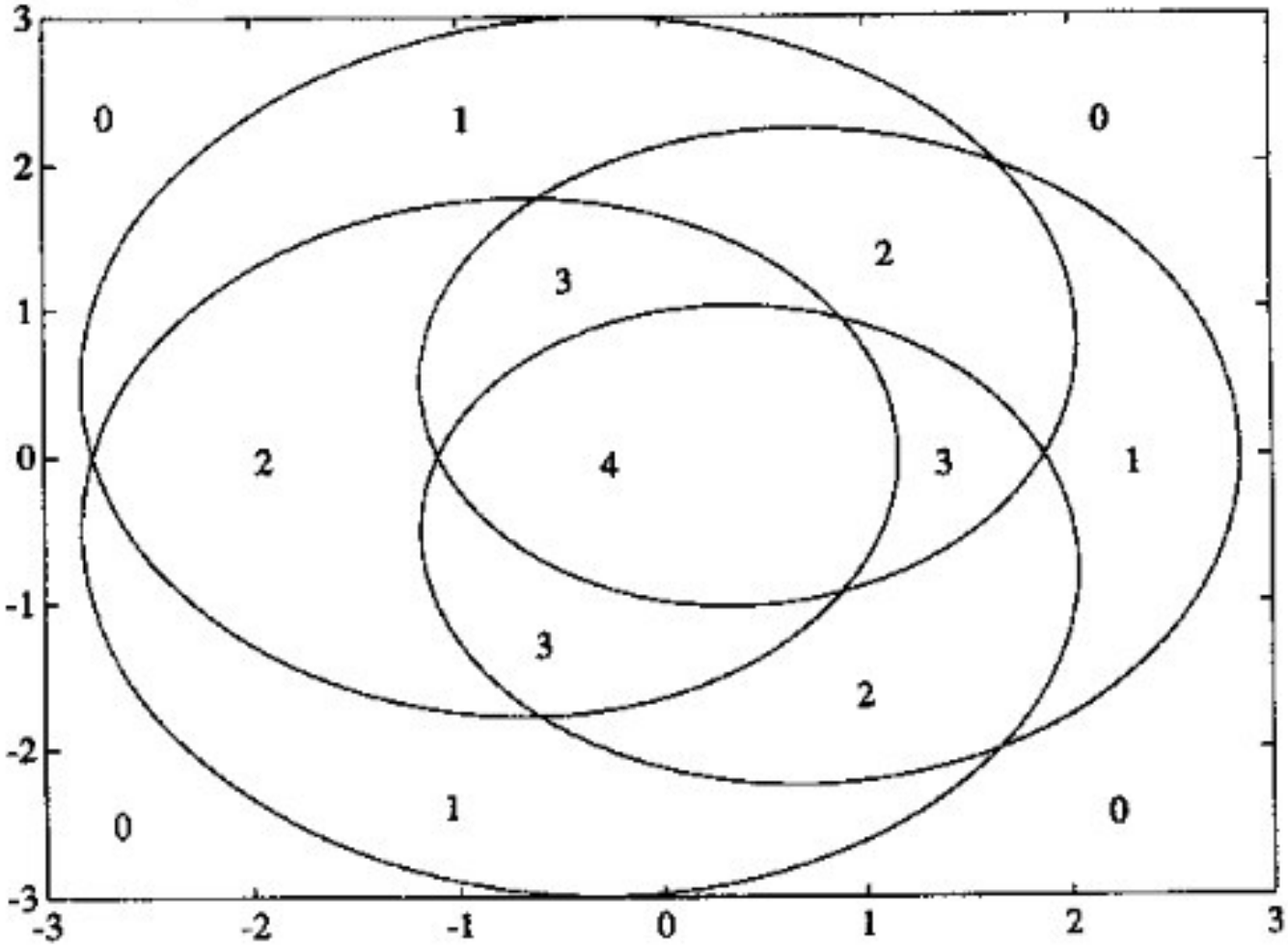

The curve above (taken anticlockwise) winds about points according to the numbers shown in the diagram.

It is in fact the image of the unit circle γ under the function $f(z) = 2z^4 - \sin z$, and hence, by the argument principle $2z^4 - \sin z = w$ has either 0, 1, 2, 3 or 4 solutions inside the unit circle (counting multiplicity), according to where w is.

This is because

$$n(f \circ \gamma, w) = \frac{1}{2\pi i} \int_\gamma \frac{f'(z)}{f(z) - w}\, dz$$

and $f'(z)/(f(z) - w)$ has a residue of M at an M-fold zero of $f(z) - w$.