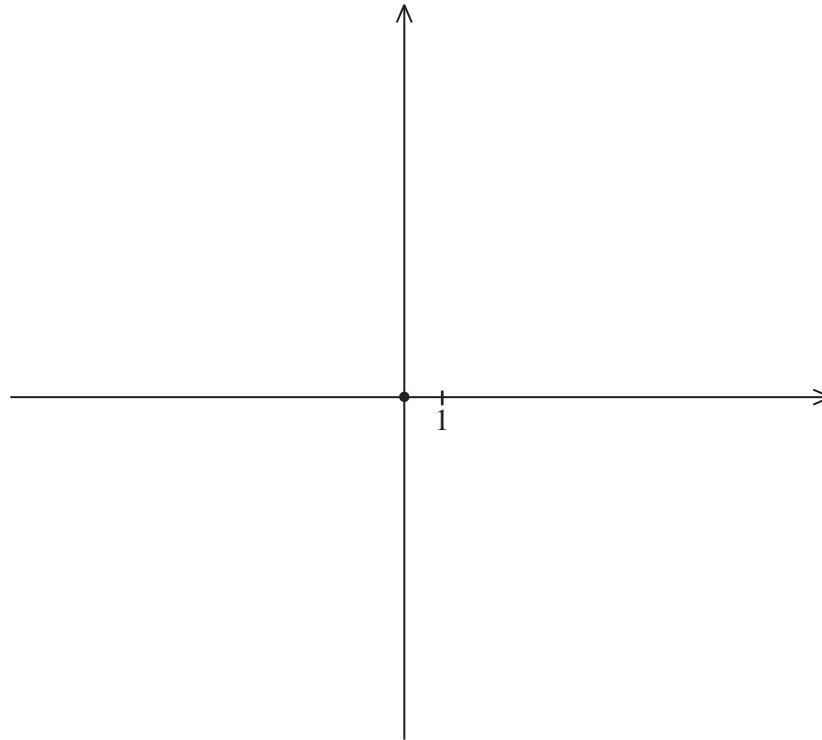


Quiz**Name**

1. Take the complex numbers $c_1 = -\frac{3}{2} + 2i$ and $c_2 = 2 - i$. Place them carefully into the complex plane below. Compute the product c_1c_2 and place it into the plane as well.



2. Consider the differential equation $y'' + 2y' - 3$. Determine the roots of its auxiliary polynomial. Find a solution $y = f(x)$ of the differential equation that satisfies the initial conditions $f(0) = 1$ and $f'(0) = 2$.