Since we are calling the *z*-axis the imaginary axis and leaving the *x*- and *y*-axes the same, a point on the phantom graph that looks like (a,b,c) means that if x = a + ic and y = b then these will satisfy the **original** equation.

So since $\left(0, -\frac{25}{3}, \pm \frac{20}{3}\right)$ is on the phantom graph, $x = i\frac{20}{3}$ and $y = -\frac{25}{3}$ should satisfy

both of the original equations.

Check: $x^2 + y^2 = \left(i\frac{20}{3}\right)^2 + \left(-\frac{25}{3}\right)^2 = -\frac{400}{9} + \frac{625}{9} = \frac{225}{9} = 25$ so it is 'on' the circle.

Similarly $\frac{16}{3}y = \frac{16}{3}\left(-\frac{25}{3}\right) = -\frac{400}{9}$ and $x^2 = \left(i\frac{20}{3}\right)^2 = -\frac{400}{9}$. The coordinates satisfy both equations.,