Answer on Question #58298 – Math – Complex Analysis

Question

Let

z=−3+i7√

z=-3+i7,

then

tanθ=

Solution

$$z = x + iy = -3 + \sqrt{7}i \rightarrow tan\theta = \frac{y}{x} = \frac{\sqrt{7}}{-3} = -\frac{\sqrt{7}}{3};$$

$$z = x + iy = -3 + 7i \rightarrow tan\theta = \frac{y}{x} = \frac{7}{-3} = -\frac{7}{3}$$
.

Answer: $-\frac{\sqrt{7}}{3}$; $-\frac{7}{3}$.