

Quiz 5
6/21/2024

Name: _____

1. Place the complex number $z = -1 + i$ on the xy -coordinate system. Then write it in polar form $z = r(\cos \theta + i \sin \theta)$.
2. Write the complex number $(-1 + i)^4$ in both polar form and standard form $a + ib$.
3. For each value of $t = -2, -1, 0, 1, 2$, place the point $(x(t), y(t)) = (2t, t^2 - 1)$ on the xy -coordinate system. Then sketch the parametric curve $(x(t), y(t)) = (2t, t^2 - 1)$.