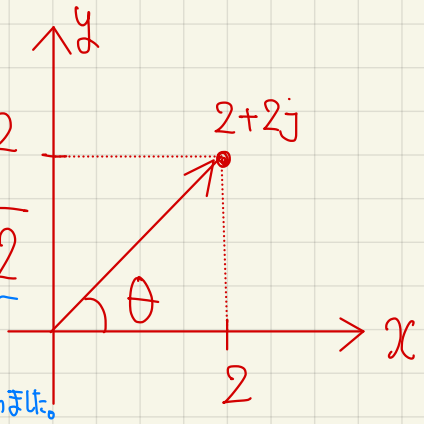
1 (1) $z = 2 + 2j$



$r = |z| = \sqrt{2^2 + 2^2} = \sqrt{8} = 2\sqrt{2}$

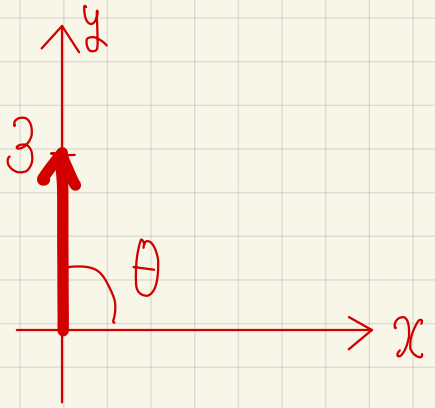
ここが間違っていました。

$\tan\theta = \frac{2}{2} = 1$

$\theta = \tan^{-1}(1) = \frac{\pi}{4} \ (=45°)$

$z = 2e^{\frac{\pi}{4}j}$

(2) $z = 3j$



$r = |z| = \sqrt{0^2 + 3^2} = 3$

$\theta = \frac{\pi}{2} \ (=90°)$

$z = 3e^{\frac{\pi}{2}j}$