Modulus:

$$|1+i| = \sqrt{1^2+1^2} = \sqrt{2}$$

Arguments:

$$Arg(1+i) = \arctan\left(\frac{1}{1}\right) = \frac{\pi}{4}$$

because $Re\ z = Re\ (1+i) = 1 > 0$ and $Im\ z = Im\ (1+i) = 1 > 0$.