

EE202 Homework 1

1. Suppose $a = 1 + 3j$, $b = 2 + 4j$, Find

- (1) $a+b$
- (2) $|a|$
- (3) $|ab|$
- (4) a^*
- (5) ab
- (6) a/b
- (7) $\text{Arg}(a)$

2. Find the polar representation of complex number $(2+j2)$

3. Suppose $a = 5\angle 30^\circ$, $b = 2\angle 45^\circ$, Find

- (1) $\text{Arg}(a)$
- (2) $\text{Arg}(ab)$
- (3) $\text{Arg}(a/b)$
- (4) ab
- (5) a/b