

**ENGI 3424**  
**Tutorial Examples for Complex Numbers**

1.  $j = \sqrt{-1}$ . Find the square roots of  $j$  in Cartesian form  $z = x + jy$ .
  2. Find the principal value of  $\sqrt{7 + 24j}$ .
  3. Find the value(s) of  $j^j$ .
  4. Find the principal value of  $\ln(-1)$ .
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