



5. (2 points) Consider the complex number  $z = 2cis\left(\frac{2\pi}{3}\right)$  Write  $z$  in the form  $x + yi$  where  $x$  and  $y$  are real numbers.

6. Consider the complex numbers and  $z = -4 - 3i$  and  $w = 2 - i$

**a.** Plot  $z$  and  $w$  as vectors in the complex plane. (2 points)

**b.** In what quadrant is  $zw$ ?  
Explain how you know. (2 points)

