

6.6.1 How do circles centered on the origin in the  $z$ -plane transform for

(a)  $w_1(z) = z + \frac{1}{z}$ ,      (b)  $w_2(z) = z - \frac{1}{z}$ ,      for  $z \neq 0$ ?

What happens when  $|z| \rightarrow 1$ ?