

imaginary axis

real axis

$$z_1 = 3 + i4 = 5e^{i\theta_1}$$

$$\frac{z_1}{z_2} = \frac{5}{2}e^{i(t_1 - t_2)}$$

$$z_2 = -2i = 2e^{-i\frac{\pi}{2}}$$

$$z_1 z_2 = 10e^{i(t_1 + t_2)}$$

