**1B Multiplying & Dividing Complex Numbers**

1. Express the following calculation in the form x + iy:

$$\frac{\sqrt{2}\left(cos\frac{π}{12}+isin\frac{π}{12}\right)}{2\left(cos\frac{5π}{6}+isin\frac{5π}{6}\right)}$$

1. Express $2e^{\frac{πi}{6}}×\sqrt{3}e^{\frac{πi}{3}}$ in the form $x+iy$

1. $z=2+2i$, $Im\left(zw\right)=0$ and $\left|zw\right|=3\left|z\right|$