

Evaluate to either rectangular or polar form:

$$z = 2i + i$$

$$z = 2 + 4i - 3 + i$$

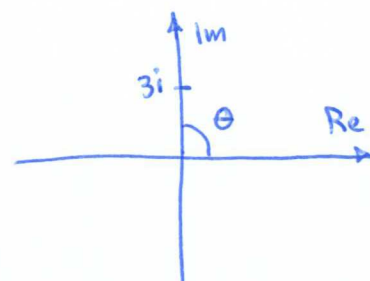
$$z = 2 - 2i + i + 8$$

Evaluate to either rectangular or polar form:

$$z = 2i + i$$

$$z = 3i$$

$$\begin{aligned} z &= 0 + 3i = 3e^{i\frac{\pi}{2}} \\ &= 3e^{1.571i} \end{aligned}$$



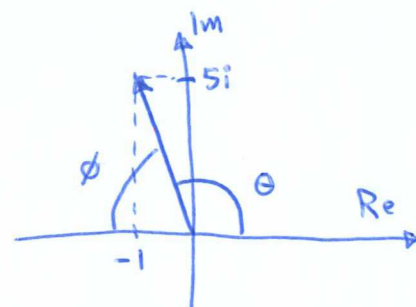
$$\theta = \tan^{-1}\left(\frac{3}{0}\right) = \frac{\pi}{2} \text{ rads}$$

$$R = \sqrt{0^2 + 3^2} = 3$$

$$z = 2 + 4i - 3 + i$$

$$z = -1 + 5i$$

$$\begin{aligned} z &= -1 + 5i = \sqrt{26} e^{1.768i} \\ &= 5.10 e^{1.768i} \end{aligned}$$



$$\phi = \tan^{-1}\left(\frac{5}{1}\right) = 1.373 \text{ rads}$$

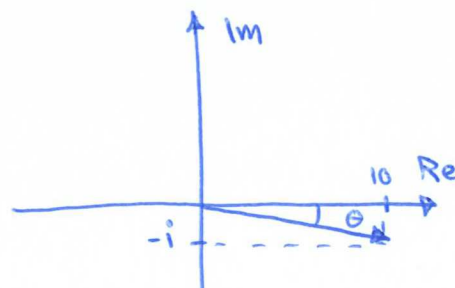
$$\theta = \pi - 1.373 = 1.768 \text{ rads}$$

$$R = \sqrt{(-1)^2 + 5^2} = \sqrt{26}$$

$$z = 2 - 2i + i + 8$$

$$z = 10 - i$$

$$\begin{aligned} z &= 10 - i = \sqrt{101} e^{-0.100i} \\ &= 10.05 e^{-0.100i} \end{aligned}$$



$$\theta = \tan^{-1}\left(\frac{-1}{10}\right) = -0.100 \text{ rads}$$

$$R = \sqrt{10^2 + (-1)^2} = \sqrt{101}$$