

Solve for z in either rectangular or polar form:

$$z + i = 2 - i$$

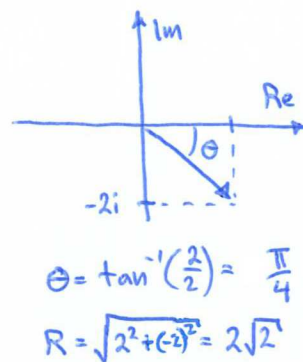
$$4 - i = 3i + z$$

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

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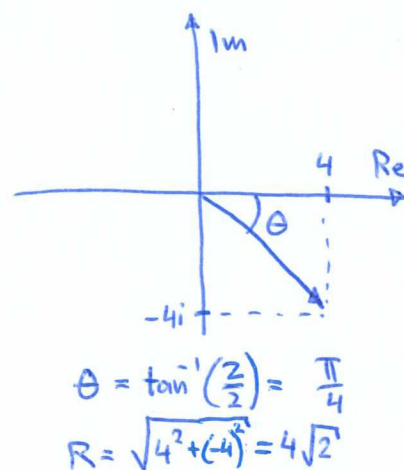
$$\boxed{z = 2 - 2i = 2\sqrt{2} e^{-i\frac{\pi}{4}} = 2.82 e^{-0.785i}}$$



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

$$4 - 4i = z$$

$$\boxed{z = 4 - 4i = 4\sqrt{2} e^{-i\frac{\pi}{4}} = 5.66 e^{-0.785i}}$$



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

$$3i - 5 = z$$

$$\boxed{z = -5 + 3i = \sqrt{34} e^{2.601i} = 5.83 e^{2.601i}}$$

