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(a) Let $z = z + iy$. Thus $z = z + iy = x + iy = x + iy = x + iy = iy = iy = 0$ Hence, $z = z$ if and only if $\text{Im}z = 0$. (b) Let $z = z + iy$. Thus $z + z = 0$ $x + iy + z + iy = 0$ $x + iy + x + iy = 0$ $2x = 0$ $x = 0$ Hence, $z + z$ if and only if $\text{Re}z = 0$. (c) In this part ...

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