

Let
$$z = 6-2i$$
 Fund. $|z| = \sqrt{40}$
* $\overline{z} = 6+2i$ $= \sqrt{6^2 + 2^2}$
 $z \cdot \overline{z} = |z|^2$ $= \sqrt{(6+2i)(6-2i)}$
 $= \sqrt{z \cdot \overline{z}}$

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