

Advanced Higher Maths
SQA 2018 Paper
Question 4



Given that $z_1 = 2 + 3i$ and $z_2 = p - 6i$, $p \in \mathbb{R}$, find:

- (a) $z_1 \bar{z}_2$; 2
- (b) the value of p such that $z_1 \bar{z}_2$ is a real number. 1
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Answers:

- (a) $(2p - 18) + (3p + 12)i$
- (b) -4