Complex arithmetic quiz

Throughout this quiz, let $a = 4 + i$ and $b = -3 + 3i$.

1. Plot $a$ and $b$ on the axes below.

2. Compute $2a - b$.

3. Compute $ab$.

4. True or false: $|a| > |b|$.

5. True or false: $i^4 = i^6$. 