

Practice Quiz 10 Calc 3 12/6/2006

Each problem is worth 2 points.

1. Compute $(3 + 2i) - (2 - 5i)$.

2. Compute $(3 + 2i) \div (2 - 5i)$ and write your answer in standard form.

3. Compute $(1 - i) \times (1 + i)$ and write your answer in standard form.

4. Write $\frac{\sqrt{3}}{2} + \frac{1}{2}i$ in polar form and find $\left(\frac{\sqrt{3}}{2} + \frac{1}{2}i\right)^6$.

5. Write $e^{-6\pi i}$ in standard form.