Practice worksheet | Complex Numbers

Complex arithmetic in both forms

Name: _____ Date: _____

6 questions | 13 marks

1. Calculate $(2-3i)+(1+5i)$. [2 marks]

2. Expand $(2+i)(3-2i)$. [2 marks]

3. Simplify $\frac{2-i}{1+i}$. [2 marks]

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4. Calculate $\frac{4\text{cis}(\frac{2\pi}{3})}{2\text{cis}(-\frac{\pi}{6})}$. [2 marks]

5. Find $2\text{cis}(\frac{\pi}{3}) + 2\text{cis}(-\frac{\pi}{3})$. [2 marks]

6. If $zw = 6i$ and $z = 1 + i$, find w. [3 marks]