

Chem. 540

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Math Problem 4

Find the real and the imaginary part of each of the following complex numbers:

(a) $-e^{i\pi/4}$

(b) $3e^{-i\pi/2}$

(c) $(\sqrt{3} - i)^{\frac{1}{2}}$

(d) $\frac{1+i}{2+3i} + e^{3i\pi/4}$

(e) $5e^{2i}$

(f) $|e^{i\pi/3}|$

(g) $2i^{-4}$