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) \((\sqrt{3} - i)^{1/2}\)
(d) \(\frac{1+i}{2+3i} + e^{3i\pi/4}\)
(e) \(5e^{2i}\)
(f) \(|e^{i\pi/3}|\)
(g) \(2i^{-4}\)