Chapter 9, Problem 25.

Using phasors, determine $i(t)$ in the following equations:

(a) $2\dfrac{di}{dt} + 3i(t) = 12\cos(2t + 45°)\text{A}$

(b) $10\int i\,dt + \dfrac{di}{dt} + 6i(t) = 5\cos(5t + 22°)\,\text{A}$