Simplify the following and give the answer as a single sinusoid: $x(t)=A \cos (\omega t+\phi)$. Draw the vector diagram of the complex amplitudes (phasors) to show how you obtained the answer.
(a) $x_{a}(t)=2 \cos (333 \pi t)-\sin (333 \pi t)$
(b) $x_{b}(t)=10 \cos (245 t+3 \pi / 4)+10 \cos (245 t+\pi / 2)$
(c) $x_{c}(t)=\cos (41 t+17 \pi)+\sqrt{2} \cos (41 t+\pi / 4)+\sqrt{2} \cos (41 t-\pi / 4)$

