A real signal

$$
x(t)=A \cos (200 \pi t+\phi)+B \cos \left(\omega_{1}(t-\tau)\right)+C \cos \left(\omega_{2} t\right)+D
$$

has the following two-sided spectrum:

frequency in Hz
(a) Determine $A, B, C, D, \omega_{1}, \omega_{2}, \phi$, and $\tau$ the signal $x(t)$ with the above spectrum.
$A=$
$B=$
-------------
$C=$
$D=$
$\phi=$
-------------
$\omega_{1}=$
$\omega_{2}=$
$\tau=$
(b) The signal $x(t)$ is periodic. Determine the fundamental frequency $f_{0}$, of the signal $x(t)$.
$f_{0}=$ f=---------

