A.
$$A \longrightarrow x_c(+)$$
. $cos(wc++G-)$
 $C \longrightarrow x_c(+)$. $sin(w_c++G-)$

$$A \rightarrow A_{c}(1+mx(+))\cos wc+ \cdot \cos (wc++e)$$

$$A_{c}\cos wc+ \cdot \cos (wc++e) + A_{c}mx(+) \cdot \cos wc+ \cdot \cos (wc++e)$$

$$A_{c}(\cos(2wc++e) + \cos e) + A_{c}mx(+) \cdot (\cos(2wc++e) + \cos e)$$

$$Cos(-e) = cos e$$

$$A(+)$$

$$Cos^{2}x = cos^{2}x + 1$$

$$B(+) = \frac{A_{c}}{2}\cos e + A_{c}mx(+) \cdot \cos e$$

$$\frac{B}{|||^2||} \rightarrow \frac{||||^2|}{||||^2|} = \frac{Ac^2}{4} \left(\frac{\cos 20 + 1}{2} \right) + \frac{Ac^2m^2 \times (+)^2}{4} \cdot \left(\frac{\cos 20 + 1}{2} \right)$$

$$C \longrightarrow Ac(1+mx(+))\cos wc+.\sin(wc++&-)$$
, $\sin(wc++&-)=\cos(wc++&-\frac{\pi}{2})$

$$C(+) = \frac{Ac}{2} \left(\cos \left(2wc+ - \frac{\pi}{2} \right) + \cos \left(- \frac{\pi}{2} \right) \right) + \frac{Acmx(+)}{2} \left(\cos \left(2wc+ - \frac{\pi}{2} \right) + \cos \left(- \frac{\pi}{2} \right) \right)$$

$$C \longrightarrow \overline{AGS} \longrightarrow D$$

$$f=W$$

$$D(+) = \frac{AC}{2} \cos(\Theta - \frac{\pi}{2}) + \frac{Ac m \times (+)}{2} \cos(\Theta - \frac{\pi}{2})$$

$$D \longrightarrow ()^{2} \longrightarrow = (D(+))^{2} = \frac{Ac^{2}}{4} \left(\frac{\cos(2e^{-i\pi}) + 1}{2} \right) + \frac{Ac^{2} m^{2} x(+)^{2}}{4} \left(\frac{\cos(2e^{-i\pi}) + 1}{2} \right)$$

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