$$\sum_{i=1}^{n} a_i = n \cdot \frac{a_1 + a_n}{2}$$

$$= \frac{1 + 160}{2}$$

$$= \frac{1}{2} \cdot \frac{1 + 160}{2}$$

2. What is the imag. port of
$$\frac{1}{1+j}$$
?

The from calc. got $\frac{-1}{2}$
 $\frac{1}{1+j} \cdot \frac{1-j}{1-j} = \frac{1-j}{1-(-1)} = \frac{1-j}{2} = \frac{-1}{2}$

Complex Number Format: 1-13

Peal + Imag. j real imag

3. What is the value of

What is the power of:) + Cos (Stat y = sin (27t $P_{y_1} = \frac{1}{100} \frac{1}{2} \int \frac{1}{2} \left(\sin(2\pi t) \right) dt$ $P_{yz} = \left[\frac{1}{1500} \frac{3}{2}\right] \int_{-1}^{1} \left(\cos(8\pi t)\right)^2 dt$ Power = 1

An analog accelerometer with +3V power supply is used to measure acceleration A in range +-2g. What is the voltage on the analog output pin if acceleration is A=1 g?

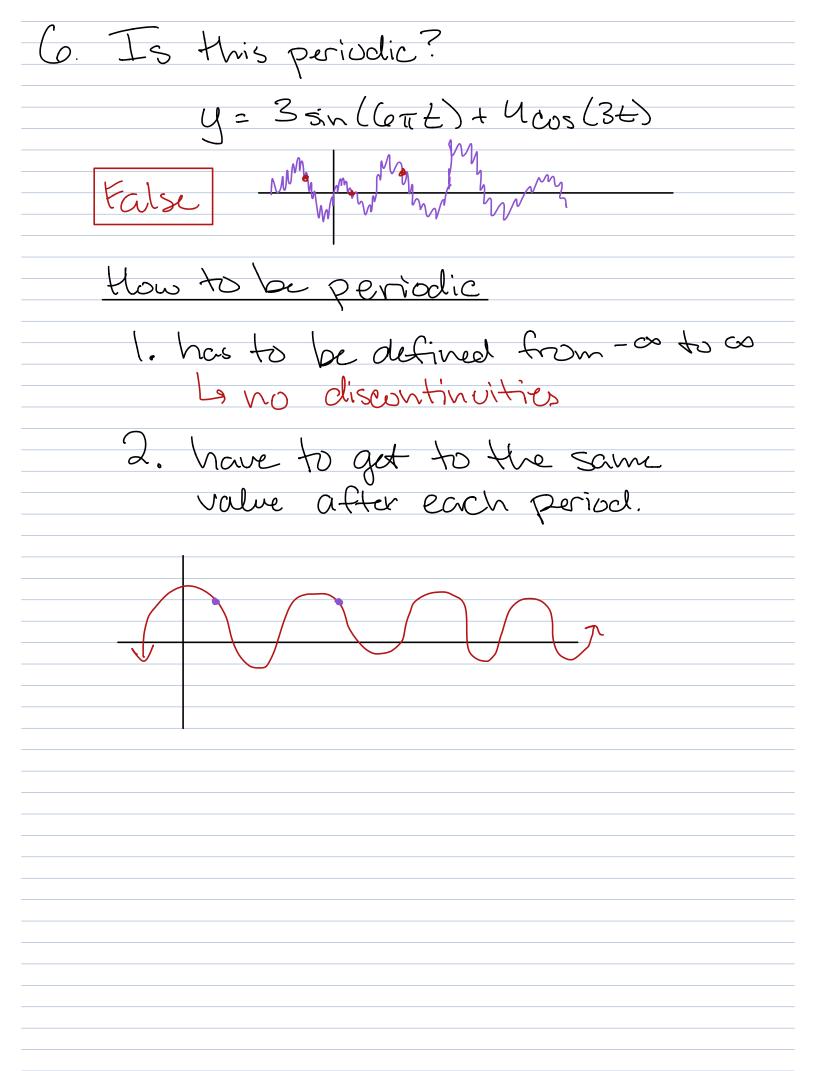
Please use 3 decimal digits of precision.

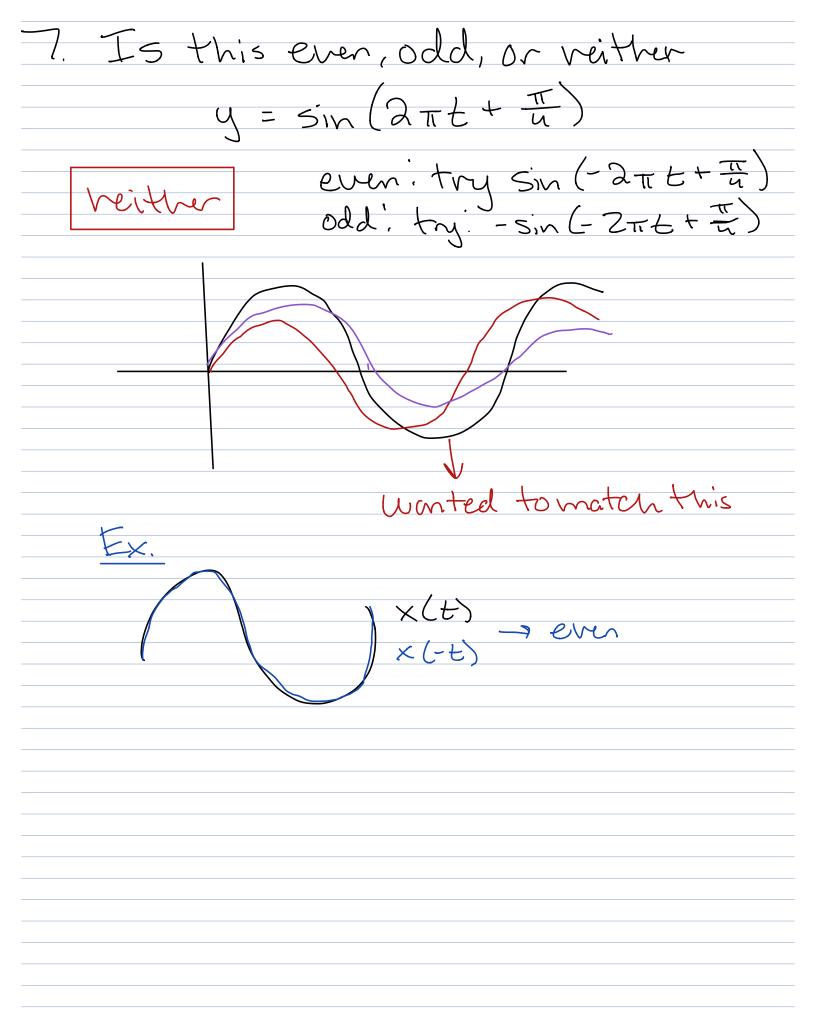
2.25

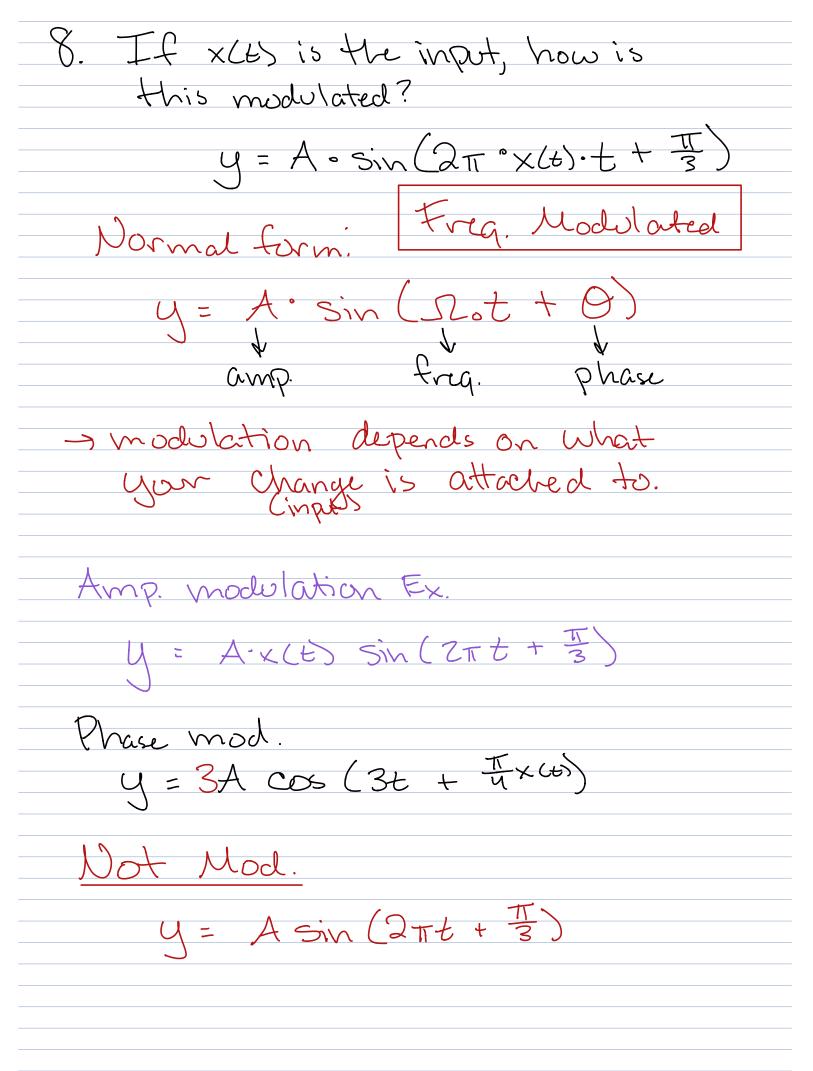
$$\alpha = \alpha_0 + s\alpha$$

VCC = 3V

$$A = 1.5 + 0.75(1) = 2.250$$







9.	For inductor w/ inductorce L,
	What is the complex impedence
	in the laplace domain?
	Circuit Complex imp.
	Element in Laplace
	2
	Ls

10. Is this right?

$$x(t) = \sin(3t)$$

$$X(s) = I[x(t)] = \frac{1}{s^2 + q}$$

$$\frac{1}{\sin(3t)} = \frac{1}{s^2 + q}$$