2.

Part 1

* Period = 0.2 second
* Frequency is = 5Hz
* Peak to peak amp = 20 V
* Amp is 10

Part 1.2

For both sine an cosine waves

* Period = 0.1 second
* Frequency = 10Hz
* Peak to peak amp = 10V

Phase difference between sine and cosine is = 90 degrees

Part 2

Part 3

Frequency 5 Hz

Period 0.2 second

Peak to Peak is 10

Avg Volt is 0 but can change with noise distruption

At 5 amp noise and above

Part 4

Period = 0.1

Frequency = 10

Peak to peak highest 20

Peak to peak lowest 2

1110010101

Stay in high state for 0.1 second to get as 1

Noise need to be more than 20 amps since anything less you can still make out from the signals

Part 5

Period high 0.05

Period low 0.1 seconds

High frequency 20 Hz

Low frequency 10 Hz

1111110011011011

Symbol duration : 0.1