

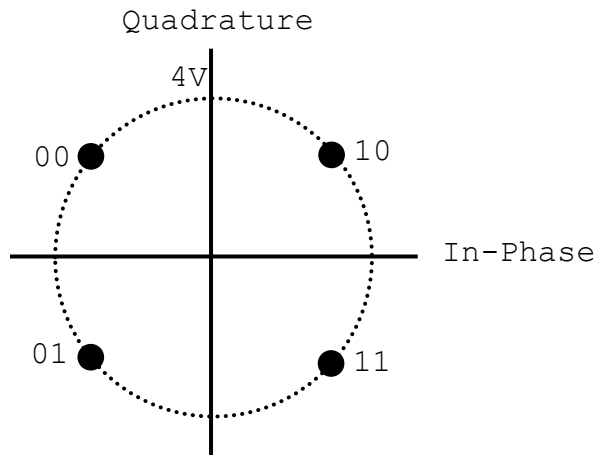
Assignment 2 Solution

(2)

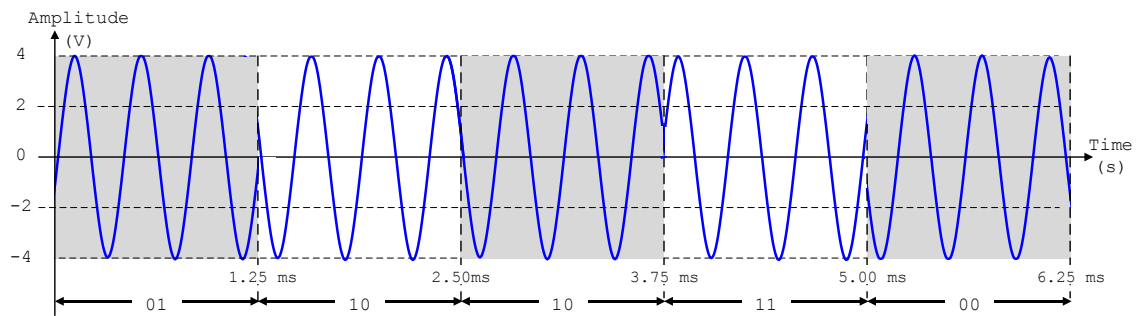
- a) 11.3 kHz
- b) 25 ksamples/s
- c) 16384 uniform quantization levels
- d) T4 can be used ($273 \text{ Mbps} < 275 \text{ Mbps}$)

(4)

a)



- b) 0.417 ms
- c) 1.25 ms
- d)



- e) 1.60 kbps

(5)

- a) Quantization Codes: 1, 2, 5, 6/7, 5, 3, 1, 2
- b) Encoded Words: 001, 010, 101, 110/111, 101, 011, 001, 010