

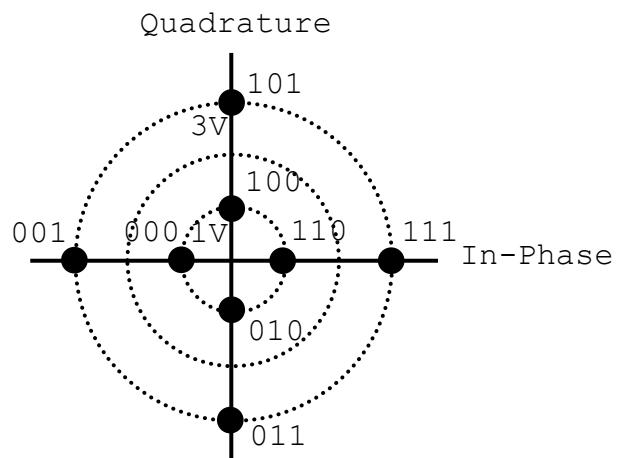
## Assignment 2 Solution

(2)

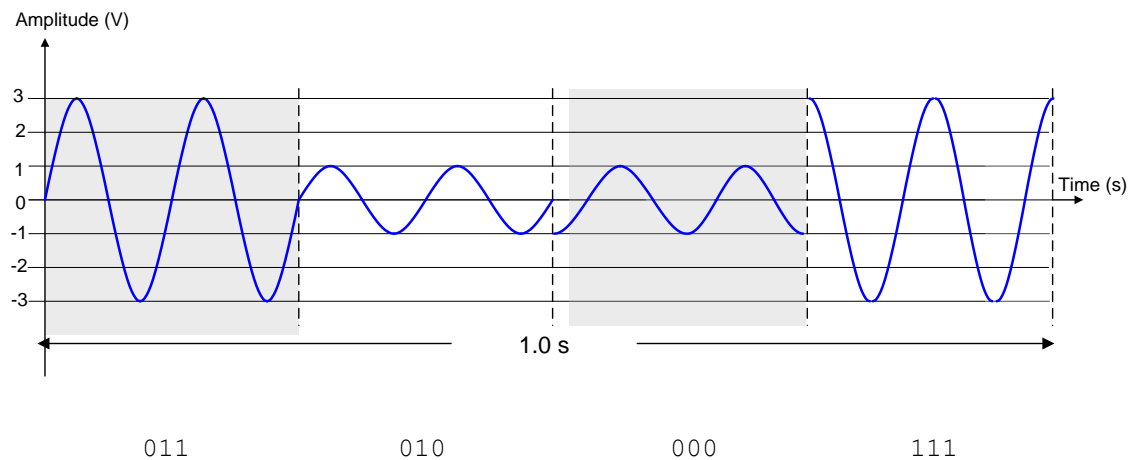
- a) 95 kHz
- b) 220 ksamples/s
- c) 2048 uniform quantization levels
- d) T4 can be used ( $232.32 \text{ Mbps} < 275 \text{ Mbps}$ )

(4)

a)



- b) 0.125 s
- c) 0.25 s/symbol
- d)



e) 12 bps

(5)

a) Quantization Codes: 2, 10, 11, 2, 8, 11

b) Encoded Words: 0010, 1010, 1011, 0010, 1000, 1011