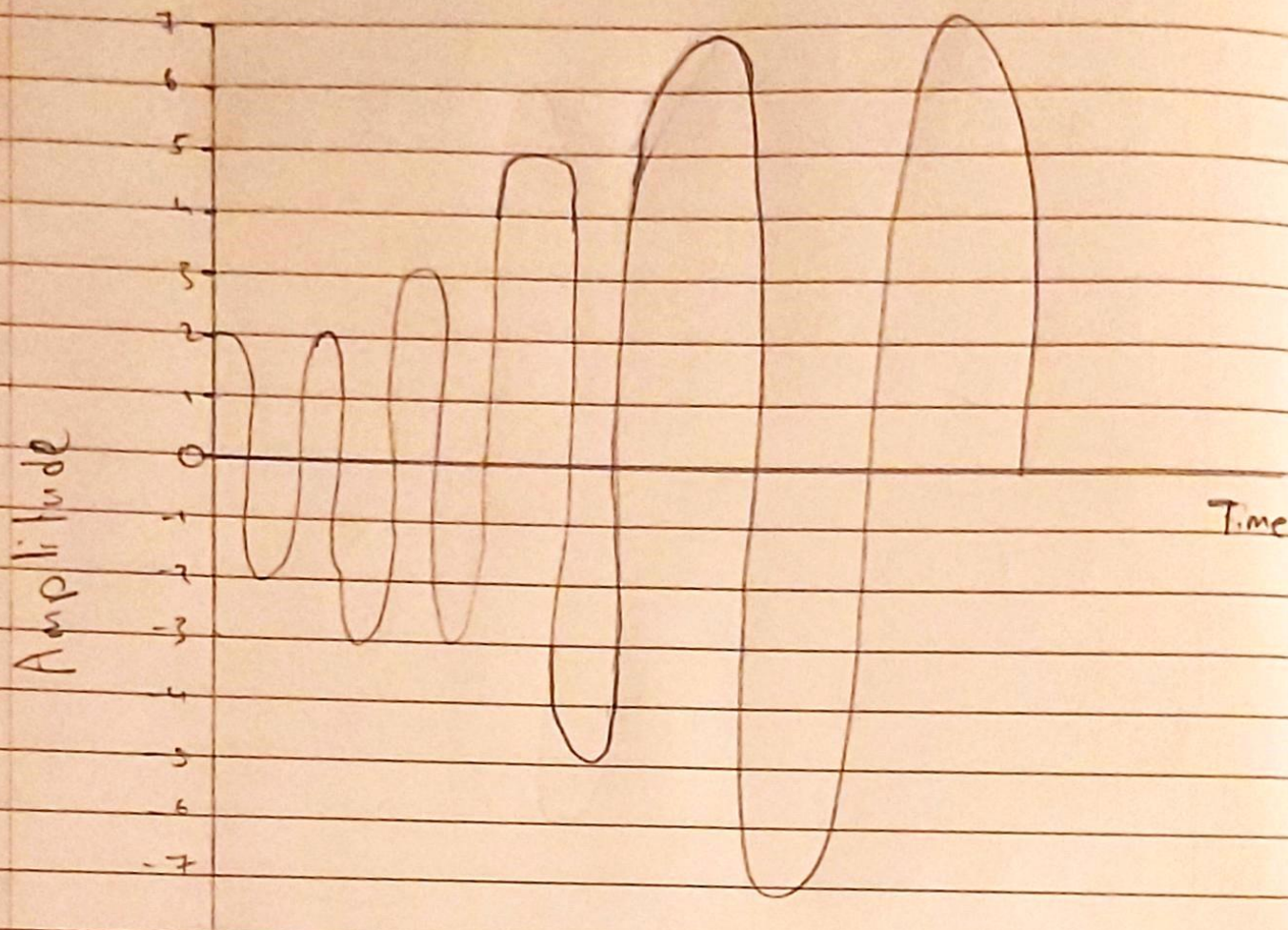


Q 11

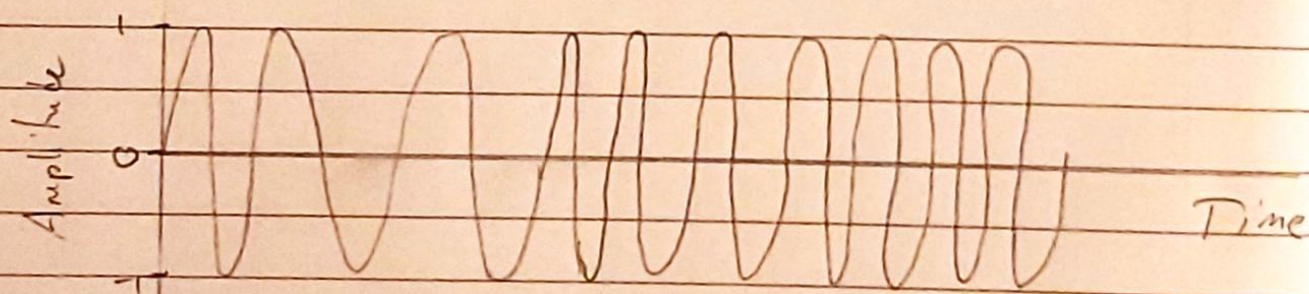
a



010011101111 : 010 011 101 111

Levels: 2 5 5 7

b.



010011101111

01 00 11 10 11 11

Levels

1 0 3 2 3 3

$$S = \frac{R}{n} = \frac{600 \times 10^6}{3} = 200 \text{ MBd}$$

= 200×10^6 baud

Carrier Site wave: $s(t) = A \sin(4\pi \times 10^9 t)$