

Q10

$$f_s = 1000$$

$$t = 0 : \frac{1}{f_s} : 1 - \frac{1}{f_s}$$

$$x = \cos(10 \times \pi \times t)$$

① plot fft of x

② $x_m = \text{modulate}(x, t, 100)$ ^{Carrier freq}

plot fft of x_m

③ play x_m