

정보통신 수학 및 실습 Homework

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Chapter 3 Homework



- **a)** $\cos(100\pi t)\cos(500\pi t)$
- **b)** $4sin(200\pi t)cos(300\pi t)$
- 2. Find the frequency of the following signals.
- a) $\sin(t)$
- **b)** $\cos(600\pi t)$
- 3. Evaluate the following functions.
- a) $sin(\pi/4)$
- **b)** $tan(\pi)$
- 4. Let the information signal $m(t)=4\sin(200\pi t)$ and the carrier signal $c(t)=\cos(2\times 10^6\pi t)$. Simplify the transmission signal x(t)=m(t)c(t) and find its frequencies. Plot the magnitude of each frequency in the frequency domain.