Notes on Digital communication

Eric Clapton

Xidian University

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1. Preliminaries

Definition 1.1. *Let A, B be sets. We say $A \subseteq B$ if every $a \in A$ also satisfies $a \in B$.*

Theorem 1.2 (Pythagorean Theorem)**.** *Let a, b be the legs of a right triangle and c the hypotenuse. Then:*

$$a^2 + b^2 = c^2.$$

$createTable(3, 3)$

Proof. This follows from Euclidean geometry. □

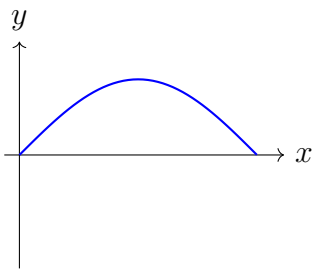

Figure 1: A sine function

Table 1: Sample Data in Landscape Mode

x	$f(x)$	$\nabla f(x)$	$\int f(x)\,dx$
0	0	1	0
$\pi/2$	1	0	1

Example 1.3. Let $\not{p} = \gamma^\mu p_\mu$. Then $\not{p}^2 = p^2$ in Minkowski space.

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