EXHIBIT B

GRAPH
WITH A

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1 Graphs

1.1 GRAPHS AND SIMPLE GR

Many real-world situations
diagram consisting of a set
of these points. For examp
joining pairs of friends; or
lines representing communi
mainly interested in wheth
the manner in which they a
tion of situations of this ty

A *graph* G is an ord
nonempty set $V(G)$ of *ver*
and an *incidence function*
unordered pair of (not nece
u and v are vertices such t
vertices u and v are called

Two examples of graphs

Example 1

G

where

$V(G$

$E(G$

and ψ_G is defined by

$\psi_G(e_1) = v_1v_2, \psi$

$\psi_G(e_5) = v_2v_4, \psi$

Example 2

where

V

E

and ψ_H is defined by

$\psi_H(a) = uv,$

$\psi_H(e) = vx,$

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