# Part 1: Relations

1. In one paragraph, explain what a relation is.

b) Create a binary relation between X and Y that contains at least 6 ordered pairs, given that X and Y are the following:

Let the set X = {Bill Smith, Amos Black, Tarra Sigorney, Alfred Ross}

Let the set Y = {MAT 102, ENG 202. PSY 303, BUS 405}

1. Given the following information, create the appropriate digraph

Let X = {1, 3, 4, 6}

Let Y = {1, 2, 3, 5, 7}

Create a digraph that describes the binary relation x < y. For example, (1,3) would be a member of the relation.