

MA 125-06  
§2.1 - 2.2

## Quiz #3

score

Name: \_\_\_\_\_

16 September 2000

1. If  $U = \{a, b, c, d, e, f, g, h, i, j, k, l, m, n\}$ ,  $A = \{a, c, e, g, \}$  and  $B = \{c, g, i, j, k, l\}$ , find the set  $(A \cap B)'$ . (7 points)

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2. List all the subsets of the set  $A = \{a, b, c, d\}$ . (6 points)

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3. A survey was conducted to examine patterns in owning microwaves ovens, answering machines and VCRs. The following data were obtained: 21 people had microwaves; 39 people had VCRs; 7 people had none of the three; 8 people had answering machines, but no microwaves or VCRs; 6 people had microwaves and VCRs, but no answering machines; 25 people had answering machines; 10 people had all three; 15 people had answering machines and VCRs.

Draw a Venn diagram using the above information. Then determine how many people were in the survey. (7 points)