

Eric Rouse

Individual Assignments #58

Assignment: *Section 2.1: 6, 8, 12, 16, 18, 28*

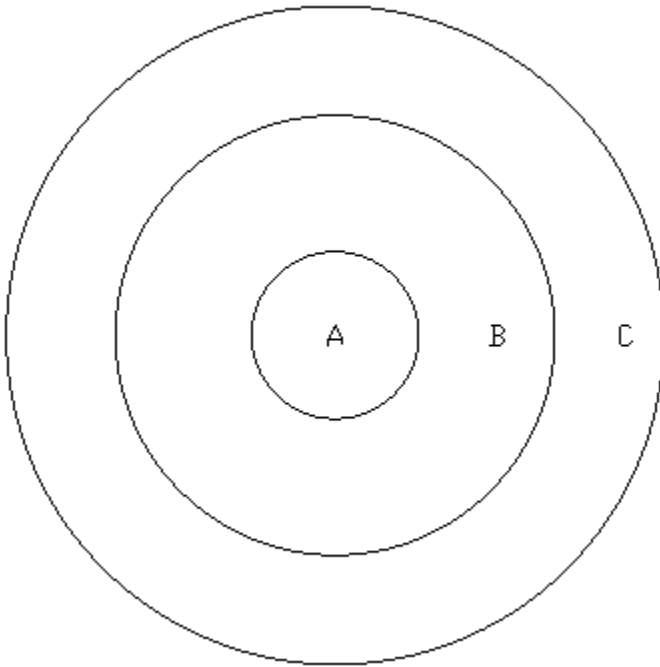
Q6

- a) No
- b) No
- c) Yes
- d) Yes
- e) Yes
- f) Yes

Q8

- a) T
- b) T
- c) T
- d) T
- e) T
- f) F
- g) F

Q12



Q16

Set 1: $A = \{1\}$ & $B = \{\{1\}, 2\}$

Set2: $A = \{x, y\}$ & $B = \{z, 12, m, \{x, y\}\}$

Q18

- a) 0
- b) 1
- c) 2
- d) 3

Q28

- a) $\{(a, x, 0), (a, x, 1), (a, y, 0), (a, y, 1), (b, x, 0), (b, x, 1), (b, y, 0), (b, y, 1), (c, x, 0), (c, x, 1), (c, y, 0), (c, y, 1)\}$
- b) $\{(0, x, a), (0, x, b), (0, x, c), (0, y, a), (0, y, b), (0, y, c), (1, x, a), (1, x, b), (1, x, c), (1, y, a), (1, y, b), (1, y, c)\}$
- c) $\{(0, a, x), (0, a, y), (0, b, x), (0, b, y), (0, c, x), (0, c, y), (1, a, x), (1, a, y), (1, b, x), (1, b, y), (1, c, x), (1, c, y)\}$
- d) $\{(x, x, x), (x, x, y), (x, y, x), (x, y, y), (y, x, x), (y, x, y), (y, y, x), (y, y, y)\}$