

# MAT 108 HW 5

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Spring 2015

- §2.2 13 (c)  $A \times B$   
 $\{(\emptyset, (\emptyset, \{\emptyset\})), (\emptyset, \{\emptyset\}), (\emptyset, (\{\emptyset\}, \emptyset)), (\{\emptyset\}, (\emptyset, \{\emptyset\})), (\{\emptyset\}, \{\emptyset\}), (\{\emptyset\}, (\{\emptyset\}, \emptyset)), (\{\emptyset, \{\emptyset\}\}, (\emptyset, \{\emptyset\})), (\{\emptyset, \{\emptyset\}\}, \{\emptyset\}), (\{\emptyset, \{\emptyset\}\}, (\{\emptyset\}, \emptyset))\}$   
 $B \times A$   
 $\{((\emptyset, \{\emptyset\}), \emptyset), ((\emptyset, \{\emptyset\}), \{\emptyset\}), ((\emptyset, \{\emptyset\}), \{\emptyset, \{\emptyset\}\}), (\{\emptyset\}, \emptyset), (\{\emptyset\}, \{\emptyset\}), (\{\emptyset\}, \{\emptyset, \{\emptyset\}\}), ((\{\emptyset\}, \emptyset), \emptyset), ((\{\emptyset\}, \emptyset), \{\emptyset\}), ((\{\emptyset\}, \emptyset), \{\emptyset, \{\emptyset\}\})\}$
- (d)  $A \times B$   
 $\{((2, 4), (4, 1)), ((2, 4), (2, 3)), ((3, 1), (4, 1)), ((3, 1), (2, 3))\}$   
 $B \times A$   
 $\{((4, 1), (2, 4)), ((4, 1), (3, 1)), ((2, 3), (2, 4)), ((2, 3), (3, 1))\}$
- 17
- 18
- §2.3 1 (f)  
(h)  
(j)
- 12
- 15 (e)  
(f)
- 16
- 17 (c)  
(d)
- §2.4 6 (i)  
(k)
- 7 (l)  
(m)
- 8 (h)
- 12 (b)