

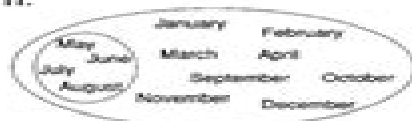
19. $\forall x [\exists y [\exists z (y \neq z \wedge \forall w (P(w, x) \leftrightarrow (w = y \vee w = z)))]$
 21. a) $\neg \exists x P(x)$ b) $\exists x (P(x) \wedge \forall y (P(y) \rightarrow y = x))$
 c) $\exists x_1 \exists x_2 (P(x_1) \wedge P(x_2) \wedge x_1 \neq x_2 \wedge \forall y (P(y) \rightarrow (y = x_1 \vee y = x_2)))$ d) $\exists x_1 \exists x_2 \exists x_3 (P(x_1) \wedge P(x_2) \wedge P(x_3) \wedge x_1 \neq x_2 \wedge x_1 \neq x_3 \wedge x_2 \neq x_3 \wedge \forall y (P(y) \rightarrow (y = x_1 \vee y = x_2 \vee y = x_3)))$ 23. Suppose that $\exists x (P(x) \rightarrow Q(x))$ is true. Then either $Q(x_0)$ is true for some x_0 , in which case $\forall x P(x) \rightarrow \exists x Q(x)$ is true, or $P(x_0)$ is false for some x_0 , in which case $\forall x P(x) \rightarrow \exists x Q(x)$ is true. Conversely, suppose that $\exists x (P(x) \rightarrow Q(x))$ is false. That means that $\forall x (P(x) \wedge \neg Q(x))$ is true, which implies $\forall x P(x)$ and $\forall x \neg Q(x)$. This latter proposition is equivalent to $\neg \exists x Q(x)$. Thus, $\forall x P(x) \rightarrow \exists x Q(x)$ is false. 25. No 27. $\forall x \forall y \exists z T(x, y, z)$, where $T(x, y, z)$ is the statement that student x has taken class y in department z , where the domains are the set of students in the class, the set of courses at this university, and the set of departments in the school of mathematical sciences. 29. $\exists x \exists y T(x, y)$ and $\exists x \forall y (\exists y' \forall w (T(x, w) \leftrightarrow w = y') \leftrightarrow x = y)$, where $T(x, y)$ means that student x has taken class y and the domain is all students in this class. 31. $P(x) \rightarrow Q(x)$ and $Q(x) \rightarrow R(x)$ by universal instantiation; then $\neg Q(x)$ by modus tollens and $\neg P(x)$ by modus tollens. 33. We give a proof by contraposition and show that if \sqrt{x} is rational, then x is rational, assuming throughout that $x \geq 0$. Suppose that $\sqrt{x} = p/q$ is rational, $q \neq 0$. Then $x = (\sqrt{x})^2 = p^2/q^2$ is also rational (q^2 is again nonzero). 35. We can give a constructive proof by letting $m = 10^{200} + 1$. Then $m^2 = (10^{200} + 1)^2 > (10^{200})^2 = 10^{400}$. 37. 23 cannot be written as the sum of eight cubes. 39. 223 cannot be written as the sum of 36 fifth powers.

CHAPTER 2

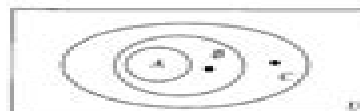
Section 2.1

1. a) $\{-1, 1\}$ b) $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11\}$ c) $\{0, 1, 4, 9, 16, 25, 36, 49, 64, 81\}$ d) \emptyset 3. a) Yes b) No c) No 5. a) Yes b) No c) Yes d) No e) No 6) No 7. a) False b) False c) False d) True e) False 8) False g) True 9. a) True b) True c) False d) True e) True f) False

11.



13. The dots in certain regions indicate that those regions are not empty.



15. Suppose that $x \in A$. Because $A \subseteq B$, this implies that $x \in B$. Because $B \subseteq C$, we see that $x \in C$. Because $x \in A$ implies that $x \in C$, it follows that $A \subseteq C$. 17. a) 1 b) 1 c) 2 d) 3 19. a) $\{0, \{-x\}\}$ b) $\{0, \{0\}, \{x, 0\}\}$ c) $\{0, \{0\}, \{0\{0\}, \{0\}, \{0\}\}$ 21. a) 8 b) 16 c) 2 23. a) $\{(a, y), (b, y), (c, y), (d, y), (a, z), (b, z), (c, z), (d, z)\}$ b) $\{(x, a), (x, b), (x, c), (x, d), (z, a), (z, b), (z, c), (z, d)\}$ 25. The set of triples $\{(a, b, c)\}$, where a is an airline and b and c are cities. 27. $\emptyset \times A = \{(x, y) \mid x \in \emptyset \text{ and } y \in A\} = \emptyset = \{(x, y) \mid x \in A \text{ and } y \in \emptyset\} = A \times \emptyset$ 29. no 31. The elements of $A \times B \times C$ consist of 3-tuples (a, b, c) , where $a \in A$, $b \in B$, and $c \in C$, whereas the elements of $(A \times B) \times C$ look like $(\{a, b\}, c)$ —ordered pairs, the first coordinate of which is again an ordered pair. 33. a) The square of a real number is never -1 . True b) There exists an integer whose square is 2. False c) The square of every integer is positive. False d) There is a real number equal to its own square. True 35. a) $\{-1, 0, 1\}$ b) $\mathbb{Z} - \{0, 1\}$ c) \emptyset 37. We must show that $\{|a\}, \{a, b\} = \{|c\}, \{c, d\}$ if and only if $a = c$ and $b = d$. The “if” part is immediate. So assume these two sets are equal. First, consider the case when $a \neq b$. Then $\{|a\}, \{a, b\}$ contains exactly two elements, one of which contains one element. Thus, $\{|c\}, \{c, d\}$ must have the same property, so $c \neq d$ and $\{c\}$ is the element containing exactly one element. Hence, $\{a\} = \{c\}$, which implies that $a = c$. Also, the two-element sets $\{a, b\}$ and $\{c, d\}$ must be equal. Because $a = c$ and $a \neq b$, it follows that $b = d$. Second, suppose that $a = b$. Then $\{|a\}, \{a, b\} = \{|a\}, \{a\}$, a set with one element. Hence, $\{|c\}, \{c, d\}$ has only one element, which can happen only when $c = d$, and the set is $\{|c\}$. It then follows that $a = c$ and $b = d$. 39. Let $S = \{a_1, a_2, \dots, a_n\}$. Represent each subset of S with a bit string of length n , where the i th bit is 1 if and only if $a_i \in S$. To generate all subsets of S , list all 2^n bit strings of length n (for instance, in increasing order), and write down the corresponding subsets.

Section 2.2

1. a) The set of students who live within one mile of school and who walk to classes. b) The set of students who live within one mile of school or who walk to classes (or who do both). c) The set of students who live within one mile of school but do not walk to classes. d) The set of students who walk to classes but live more than one mile away from school 3. a) $\{0, 1, 2, 3, 4, 5, 6\}$ b) $\{3\}$ c) $\{1, 2, 4, 5\}$ d) $\{0, 6\}$ 5. $\bar{A} = \{x \mid \neg(x \in A)\} = \{x \mid \neg(\neg x \in A)\} = \{x \mid x \in A\} = A$ 7. a) $A \cup U = \{x \mid x \in A \vee x \in U\} = \{x \mid x \in A \vee \top\} = \{x \mid \top\} = U$ b) $A \cap \emptyset = \{x \mid x \in A \wedge x \in \emptyset\} = \{x \mid x \in$

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