

- (d) There exist real numbers x, y and z such that $(x - 1)^2 + (y - 2)^2 + (z - 2)^2 \leq 0$.
 (e) True, since $(1 - 1)^2 + (2 - 2)^2 + (2 - 2)^2 = 0$.

2.75 Let $S = \{3, 5, 11\}$ and $P(s, t) : st - 2$ is prime.

- (a) $\forall s, t \in S, P(s, t)$.
 (b) False since $P(11, 11)$ is false.
 (c) $\exists s, t \in S, \neg P(s, t)$.
 (d) There exist $s, t \in S$ such that $st - 2$ is not prime.
 (e) True since the statement in (a) is false.

2.76 (a) For every circle C_1 with center $(0, 0)$, there exists a circle C_2 with center $(1, 1)$ such that C_1 and C_2 have exactly two points in common.

- (b) $\exists C_1 \in A, \forall C_2 \in B, \neg P(C_1, C_2)$.

(c) There exists a circle C_1 with center $(0, 0)$ such that for every circle C_2 with center $(1, 1)$, C_1 and C_2 do not have exactly two points in common.

2.77 (a) There exists a triangle T_1 such that for every triangle T_2 , $r(T_2) \geq r(T_1)$.

- (b) $\forall T_1 \in A, \exists T_2 \in B, \neg P(T_1, T_2)$.

(c) For every triangle T_1 , there exists a triangle T_2 such that $r(T_2) < r(T_1)$.

2.78 (a) For every $a \in A$, there exists $b \in B$ such that $a/b < 1$.

- (b) For $a = 2$, let $b = 4$. Then $a/b = 1/2 < 1$.
 For $a = 3$, let $b = 4$. Then $a/b = 3/4 < 1$.
 For $a = 5$, let $b = 6$. Then $a/b = 5/6 < 1$.

2.79 (a) There exists $b \in B$ such that for every $a \in A$, $a - b < 0$.

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- (b) Let $b = 10$. Then $3 - 10 = -7 < 0$, $5 - 10 = -5 < 0$ and $8 - 10 = -2 < 0$.

Exercises for Section 2.11: Characterizations of Statements

- 2.80 (a) Two lines in the plane are defined to be perpendicular if they intersect at right angles.
 Two lines in the plane are perpendicular if and only if (1) one line is vertical and the other is horizontal or (2) the product of the slopes of the two lines is -1 .
 (b) A rational number is a real number that can be expressed as a/b , where $a, b \in \mathbb{Z}$ and $b \neq 0$.
 A real number is rational if and only if it has a repeating decimal expansion.
- 2.81 An integer n is odd if and only if n^2 is odd.
- 2.82 Only (f) is a characterization; (a), (c) and (e) are implications only; (b) is a definition; and (d) is false.
- 2.83 (a)-(d) are characterizations. (d) is the Pythagorean theorem. (e) is not a characterization. (Every positive number is the area of some rectangle.)

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AW Rasmussen



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