

4. Let $(n): \frac{5n-6}{3}$ is an integer. be an open sentence over the domain \mathbb{Z} . Determine, with explanations, whether the following statements are true or false:

a. $(\forall n \in \mathbb{Z})(n)$.

(\forall n \in \mathbb{Z})(n) is False since for $n = 1 \in \mathbb{Z}$ such that $\frac{5n-6}{3} = \frac{5 \times 1 - 6}{3} = \frac{-1}{3}$ is not an integer.

b. $(\exists n \in \mathbb{Z})(n)$.

(\exists n \in \mathbb{Z})(n) is True since $n = 0 \in \mathbb{Z}$ such that $\frac{5n-6}{3} = \frac{5 \times 0 - 6}{3} = \frac{-6}{3} = -2$ is an integer.

5. Determine the truth value of the following statements.

a. $(\exists x \in \mathbb{R})(x^2 - x = 0)$.

True (when we take $x = 1$; $x^2 - x = 0$ which means $1^2 - 1 = 1 - 1 = 0$)

b. $(\forall x \in \mathbb{N})(x+1 \geq 2)$.

False (when we take $x = -10$; $x+1 = -10+1 = -9 \geq 2$ is false)

a. $(\forall x \in \mathbb{R})(\sqrt{x^2} = x)$.

False (when we take $x = -1$; $\sqrt{x^2} = \sqrt{(-1)^2} = \sqrt{1} = 1 \neq x = -1$)

b. $(\exists x \in \mathbb{Q})(3x^2 - 27 = 0)$.

True (when we take $x = 3$; $3x^2 - 27 = 3(3^2) - 27 = 27 - 27 = 0$)

c. $(\exists x \in \mathbb{R})(\exists y \in \mathbb{R})(x+y+3=8)$.

True (when we take $x = 3$ & $y = 2$; $x+y+3 = 3+2+3 = 8$)

d. $(\exists x \in \mathbb{R})(\exists y \in \mathbb{R})(x^2 + y^2 = 9)$.

True (when we take $x = \sqrt{8}$ & $y = 1$; $x^2 + y^2 = (\sqrt{8})^2 + 1^2 = 8 + 1 = 9$)

e. $(\forall x \in \mathbb{R})(\exists y \in \mathbb{R})(x+y=5)$.

True (since x is chosen first, we can determine a single $y = 5-x$ so that $x+y = x+5-x = 5$)

f. $(\exists x \in \mathbb{R})(\forall y \in \mathbb{R})(x+y=5)$.

True (since y is chosen first, and then we vary x arbitrarily after y is determined, $x+y=5$ can't be true like when we fix $y=0$, x could be any real number like 100, 0, -21 that makes $x+y=5$ false)

6. Consider the quantified statement

For every $x \in A$ and $y \in A$, $xy - 2$ is prime.

where the domain of the variables x and y is $A = \{3, 5, 11\}$.

a. Express this quantified statement in symbols.

Let $P(x, y)$: $xy - 2$ is prime

$(\forall x \in A)(\forall y \in A)P(x, y)$ or $(\forall x \in A)(\forall y \in A)(xy - 2 \text{ is prime})$.

b. Is the quantified statement in (a) true or false? Explain.

True

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Sir Norman Lockyer

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