

Identifying Valid Mathematical Statements

Examples of Statements

1. Every even number is divisible by 2.
2. If a circle has radius r , then its area is πr^2 .
3. $\frac{3}{4} \notin \mathbb{Z}$.
4. All rectangles are squares.
5. $\{1, 2, 3\} \cap \{3, 4, 5\} = \emptyset$.

Group Task

Are these statements? Why or why not?

1. $x^2 - 5x + 4$
2. $x^2 - 5x + 4 = 0$