" $n^2 - n + 5$ is a prime number for all $n \in \mathbb{N}$ "

Show, by counter example, that the student's statement is **not** true.

$$\tan \theta + \frac{1}{2} = -\frac{1}{2}$$

$$\tan\theta + \frac{1}{\tan\theta} \equiv \frac{1}{\sin\theta\cos\theta}$$

$$\theta \neq (90n)^{\circ} \quad n \in \mathbb{N}$$