NAME _____ DATE _____ PERIOD _____

Practice

Mathematical Induction

Use mathematical induction to prove that each proposition is valid for all positive integral values of n.

1. $\frac{1}{3} + \frac{2}{3} + \frac{3}{3} + \cdots + \frac{n}{3} = \frac{n(n+1)}{6}$

2. $5^n + 3$ is divisible by 4.