

G. Let $n \geq 2$ be an integer and $p_n(x)$ be the polynomial

$$p_n(x) = (x - 1) + (x - 2) + \cdots + (x - n).$$

What is the remainder when $p_n(x)$ is divided by $p_{n-1}(x)$?

- (a) $\frac{n}{2}$; (b) $\frac{n+1}{2}$; (c) $\frac{n^2+n}{2}$; (d) $\frac{-n}{2}$.