

# Math Title

## Problem 1.

$$\begin{aligned}(b^{n-1}a^0 + \dots + b^0a^{n-1})(b-a) &= (b^na^0 + \dots + b^1a^{n-1}) - (b^{n-1}a^1 + \dots + b^0a^n) \\ &= (b^na^0 - b^0a^n) + (b^{n-1}a^1 + \dots + b^1a^{n-1}) - (b^{n-1}a^1 + \dots + b^1a^{n-1}) \\ &= b^n - a^n\end{aligned}$$

I know that  $\forall x \subset Y \exists \frac{y \in B}{x^y} \therefore \emptyset \notin J$ . This isn't a full proof, but it could be!