



GP ALGEBRAICALLY

<https://aiminghigh.aimssec.ac.za/gp-algebraically/>

Does this tell you anything about geometric series?

Multiply out these expressions

$(1 + r)(1 - r),$
 $(1 + r + r^2)(1 - r),$
 $(1 + r + r^2 + r^3)(1 - r),$
 $(1 + r + r^2 + r^3 + r^4)(1 - r), \dots$

**Does this pattern continue?
Can you explain it?**

ACTIVITY FOR ALL

**Spot the
patterns**

$$(2 + \underline{1})(2 - 1)$$

$$(3 + \underline{1})(3 - 1)$$

$$(4 + \underline{1})(4 - 1)$$

$$(5 + \underline{1})(5 - 1)$$

...