



The Stardollars Coffee Problem

Stardollars Coffee hosted a coffee-cup-stacking contest. Anthony noticed a pattern. He told the judges that Figure 100 would have 203 coffee cups stacked up. Was he correct? Use mathematics to prove or disprove Anthony's claim.

1. Include a **table**, a **graph**, and a **rule** (equation) in your solution.
2. Justify your solution.
3. You need to explain how the **table**, **graph**, **rule**, and the **figures** prove or disprove Anthony's claim in your justification.



Figure 1



Figure 2



Figure 3