

## Answers to Review Questions

① Prove by induction on  $n \geq 1$  that  $15^n - 1$  is divisible by 7.

Base case,  $n=1$ :  $15^1 - 1 = 14 = 2 \cdot 7$

Assume that  $15^k - 1$  is divisible by 7 for some  $k \geq 1$ .

We must show that  $15^{k+1} - 1$  is divisible by 7.

Since  $15^k - 1$  is divisible by 7, there is an integer  $d > 0$  such that  $15^k - 1 = 7d$ .

$$\begin{aligned} \text{Now } 15^{k+1} - 1 &= 15 \cdot 15^k - 1 = 15(15^k - 1) + 15 - 1 \\ &= 15(7d) + 14 = 7(\underbrace{15d + 2}_{\text{integer}}). \quad \square \end{aligned}$$

② Let  $x_1 = 1$ ,  $x_{n+1} = \sqrt{1 + 2x_n}$  ( $n \geq 1$ ).

Prove by induction on  $n \geq 1$  that each  $x_n < 3$ .

Base case:  $n=1$ .  $x_1 = 1 < 3$

Assume that  $0 < x_k < 3$  for some  $k \geq 1$ .

We must show that  $0 < x_{k+1} < 3$ , i.e.,  $x_{k+1}^2 < 9$ .

$$\text{We have } x_{k+1}^2 = 1 + 2x_k < 1 + 2 \cdot 3 = 7 < 9. \quad \square$$

③ Given  $a, b, c > 0$ , the AM-GM Theorem implies that

$$\frac{a+b}{2} \geq \sqrt{ab}, \quad \frac{a+c}{2} \geq \sqrt{ac}, \quad \frac{b+c}{2} \geq \sqrt{bc}$$

Multiplying these three inequalities together,

$$\left(\frac{a+b}{2}\right) \left(\frac{a+c}{2}\right) \left(\frac{b+c}{2}\right) \geq \sqrt{ab} \sqrt{ac} \sqrt{bc} = abc$$

$$\text{So } (a+b)(a+c)(b+c) \geq 8abc. \quad \square$$

# Evolution Unit Review Chapters 1 answers

**SJ Ball**



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