

Quiz 4 Algebra & Trig 4/2/2003

Each problem is worth 5 points. For full credit provide complete justification for your answers.

1. [Based on Barnett, Ziegler, and Byleen p. 365 #63) The use of the insecticide DDT is no longer allowed in many countries because of its long-term adverse effects. If a farmer used 25 pounds of active DDT, assuming its half-life is 12 years, how much will still be active after:

(A) 5 years

(B) 35 years

(Round answers to 2 decimal places)

2. If the present population of Nigeria is 104 million people, and the population is expected to double every 23 years, what will the population be after:

(A) 10 years

(B) 50 years

(Round answers to the nearest whole number)