

Problem 1: (10 marks)

1.1. (1 mark) A population of size N is given by

$$N = \frac{1}{\sigma^2} \left(\frac{1}{\mu} + \frac{1}{\mu^2} + \frac{1}{\mu^3} + \dots \right)$$

where μ is a positive real number.

1.2. (1 mark) Find the value of N when $\mu = 2$.

1.3. (1 mark) Find the value of N when $\mu = 10$.

1.4. (1 mark) Find the value of N when $\mu = 100$.

1.5. (1 mark) Find the value of N when $\mu = 1000$.

1.6. (1 mark) Find the value of N when $\mu = 10000$.

1.7. (1 mark) Find the value of N when $\mu = 100000$.

1.8. (1 mark)

Find the value of N when $\mu = 1000000$.

1.9. (1 mark)

Find the value of N when $\mu = 10000000$.

Find the value of N when $\mu = 100000000$.

Find the value of N when $\mu = 1000000000$.

Find the value of N when $\mu = 10000000000$.

Find the value of N when $\mu = 100000000000$.

Find the value of N when $\mu = 1000000000000$.

(10 marks)

2.1. (1 mark)

Find the value of N when $\mu = 10000000000000$.

Find the value of N when $\mu = 100000000000000$.

Find the value of N when $\mu = 1000000000000000$.

Find the value of N when $\mu = 10000000000000000$.

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RS Peters



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