§7.8 Homework Calculus 2 2/21/23

It's homework. Each problem is worth 0 points... this time.

1. Compute the total value of 10 payments, each of $1000.
2. Compute the total value of 20 payments, each of $3000.
3. Compute the total value of 30 payments, each of $500.
4. Compute the total value of 100 payments, each of $200.
5. Compute the total value of an income stream of $50,000/year over 10 years.
6. Compute the total value of an income stream that begins at $5000/year and increases linearly to $10000 over a 9-year period.
7. Compute the total valure of an income stream that begins at $0/year and increases linearly to $20000 over a 10-year period.
8. Compute the total value of an income stream that begins at $1,000,000/year and increases exponentially by 10%/year over a 5-year period.
9. Compute the total value of 10 payments, beginning at $1000 and each increasing 2% over the previous.
10. Compute the total value of 20 payments, beginning at $3000 and each increasing 4% over the previous.
11. Compute the total value of 30 payments, beginning at $500 and each increasing 6% over the previous.
12. Compute the total value of 100 payments, beginning at $200 and each increasing 5% over the previous.
13. Compute the future value (assuming 5% continuous interest) of an income stream of $50,000/year over 10 years.
14. Compute the present value (assuming 5% continuous interest) of an income stream that begins at $5000/year and increases linearly to $10000 over a 9-year period.
15. Compute the future valure (assuming 5% continuous interest) of an income stream that begins at $0/year and increases linearly to $20000 over a 10-year period.
16. Compute the present value (assuming 5% continuous interest) of an income stream that begins at $1,000,000/year and increases exponentially by 10%/year over a 5-year period.