

5. [Maximum mark: 14]

John purchases a new bicycle for 880 US dollars (USD) and pays for it with a Canadian credit card. There is a transaction fee of 4.2% charged to John by the credit card company to convert this purchase into Canadian dollars (CAD).

The exchange rate is $1 \text{ USD} = 1.25 \text{ CAD}$.

(a) Calculate, in CAD, the total amount John pays for the bicycle. [3]

John insures his bicycle with a US company. The insurance company produces the following table for the bicycle's value during each year.

Year	Value of the bicycle (USD)
1st	880
2nd	704
3rd	563.20
...	...

The values of the bicycle form a geometric sequence.

(b) Find the value of the bicycle during the 5th year. **Give your answer to two decimal places.** [3]

(c) Calculate, in years, when the bicycle value will be less than 50 USD. [2]

During the 1st year John pays 120 USD to insure his bicycle. Each year the amount he pays to insure his bicycle is reduced by 3.50 USD.

(d) Find the total amount John has paid to insure his bicycle for the first 5 years. [3]

John purchased the bicycle in 2008.

(e) Justify why John should not insure his bicycle in 2019. [3]

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