

Question 27 (4 marks)

The price and the power consumption of two different brands of television are shown.

<i>Television A</i>	<i>Television B</i>
Price: \$900 Power: 176 W	Price: \$921.90 Power: 160 W

The average cost for electricity is 25c/kWh. A particular family watches an average of 3 hours of television per day.

- (a) The annual cost of electricity for Television A for this family is \$48.18. 2

For this family, what is the difference in the annual cost of electricity between Television A and Television B?

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- (b) For this family, how many years will it take for the total cost of buying and using Television A to be equal to the total cost of buying and using Television B? 2

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