



Solve each problem.

Answers

- 1) Two companies are selling electricity by Kilo-watt hour. The cost of electricity for Company A is represented in the table below, while the cost for Company B is represented by an equation, with y representing the total cost in dollars for x kilowatt hours.

Company A

Total Kilowatt-Hours	Total Cost (\$)
1379	1384
179.27	179.92

Company B

$$y = 0.11x$$

1. _____
2. _____
3. _____

Find the total cost in dollars of buying 1,073 kilowatt hours of electricity from the cheapest company.

- 2) Two companies are selling sugar by the pound. The cost of sugar for Company A is represented in the table below, while the cost for Company B is represented by an equation, with y representing the total cost in dollars for x pounds of sugar.

Company A

Total Pounds	Total Cost (\$)
19	12
5.51	3.48

Company B

$$y = 0.23x$$

Find the total cost in dollars of buying 13 pounds of sugar from the more expensive company.

- 3) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with y representing the total price and x representing the square feet of the house.

Contractor A

Square Feet	Total Price (\$)
1077	1293
132,471	159,039

Contractor B

$$y = 125x$$

What is the difference in the price per square foot between contractor A and contractor B?



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$$y = 0.13x$$

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Company A

Total Pounds	Total Cost (\$)
19	12
5.51	3.48

Company B

$$y = 0.23x$$

$$y = 0.29x$$

Find the total cost in dollars of buying 13 pounds of sugar from the more expensive company.

- 3) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with y representing the total price and x representing the square feet of the house.

Contractor A

Square Feet	Total Price (\$)
1077	1293
132,471	159,039

Contractor B

$$y = 125x$$

$$y = 123x$$

What is the difference in the price per square foot between contractor A and contractor B?