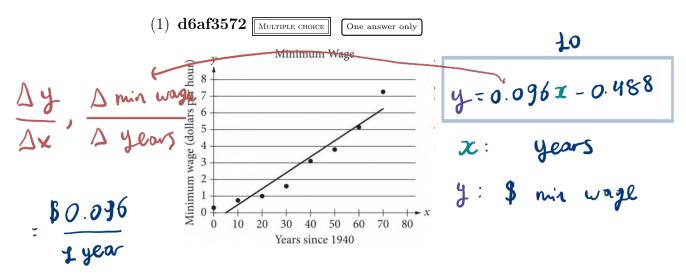
20th November

Completed Exercises from the lecture on < Two-variable Data >

L. Hard, Pages 2-5;

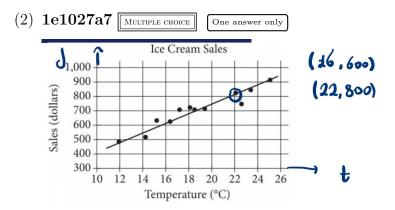
Can be found below.

Hard



=) \$ 0.96 every to tears The scatterplot above shows the federal-mandated minimum wage every 10 years between 1940 and 2010. A line of best fit is shown, and its equation is y = 0.096x - 0.488. What does the line of best fit predict about the increase in the minimum wage over the 70-year period?

- a Each year between 1940 and 2010, the average increase in minimum wage was 0.49 dollars.
- -b. Every 10 years between 1940 and 2010, the average increase in minimum wage was 0.096 dollars.
- e. Every 10 years between 1940 and 2010, the average increase inminimum wage was 0.488 dollars.
- d. Each year between 1940 and 2010, the average increase in minimum wage was 0.096 dollars.



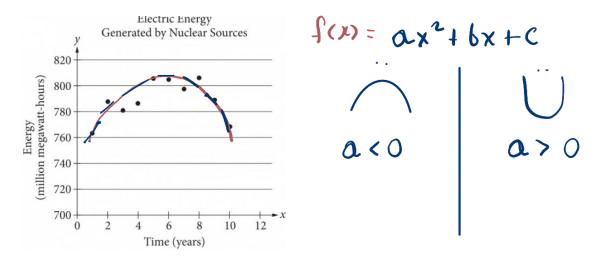
The scatterplot above shows a company's ice cream sales d, in dollars, and the high temperature t, in degrees Celsius (°C), on 12 different days. A line of best fit for the data is also shown. Which of the following could be an equation of the line of best fit?

a.
$$d = 0.03t + 402$$

b. $d = 33t + 300$
c. $d = 10t + 402$
d. $d = 33t + 84$

(5) e821a26d Multiple Choice One answer only

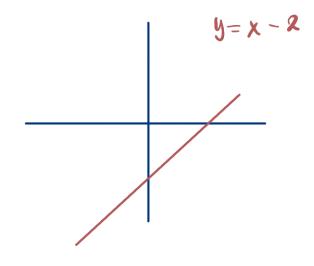
The scatterplot below shows the amount of electric energy generated, in millions of megawatt-hours, by nuclear sources over a 10-year period.

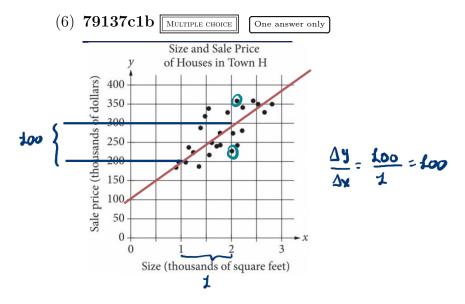


Of the following equations, which best models the data in the scatterplot?

a.
$$y = 1.674x^2 + 19.76x + 745.73$$

b. $y = -1.674x^2 - 19.76x - 745.73$
c. $y = 1.674x^2 + 19.76x - 745.73$
d. $y = -1.674x^2 + 19.76x + 745.73$





The scatterplot above shows the size x and the sale price y of 25 houses for sale in Town H. Which of the following could be an equation for a line of best fit for the data?

a.
$$y = 100x + 0$$

b. $y = 50x + 100$
c. $y = 100x + 100$
d. $y = 200x + 100$