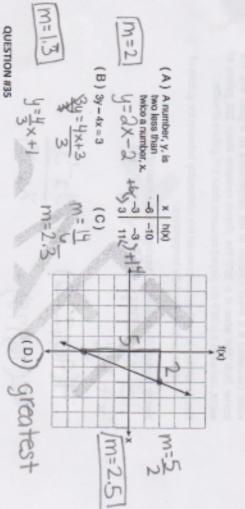


Of the four linear functions represented below, which has the greatest rate of charge?



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Which phrase describes a nonlinear function?

- A the area of a circle as a function of the radius
- B the perimeter of a square as a function of the side length
- C the cost of gasoline as a function of the number of gallons purchased
- D the distance traveled by a car moving at constant speed as a function of time

QUESTION #36

Which equation represents a linear function?

$$A \quad y = \frac{4}{x} + 1$$

B
$$y = x^2 + 2$$

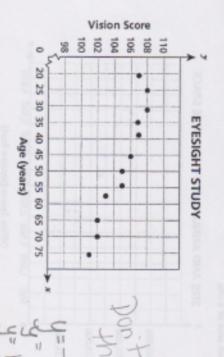
(D)
$$y = -\frac{2}{3}x^1 - \frac{1}{2}$$

No exponer

Name Class Date Date

QUESTION #37

A researcher studied the eyesight of people at different ages. She calculated a vision score for each person in the study and plotted the data on the graph below.



The researcher used the line y = -0.1x + 110 to model the data. When she substituted the value x = 65 into this equation, what did the result tell her?

- A the exact value for the vision score of a 65-year-old
- B) the predicted value for the vision score of a 65-year-old
- the minimum possible value for the vision score of a 65-year-old
- the maximum possible value for the vision score of a 65-year-old

