

Which set of ordered pairs models a function?

- A. { $(2, 9), (7, 5), (3, 14), (2, 6)$ } Not a function.
 B. { $(5, 10), (5, 15), (6, 20), (5, 25)$ } Not a function.
 C. { $(-\frac{1}{2}, -\frac{1}{3}), (\frac{1}{2}, \frac{1}{4}), (-\frac{1}{2}, -\frac{1}{5}), (\frac{1}{2}, -\frac{1}{6})$ } Not a function.

- D. { $(-10, 20), (-20, 30), (-30, 40), (-40, 10)$ } \rightarrow does not repeat
an x-value, IS a function.

Cecil has a paper cup in the shape of a cone, as shown below.

Cecil's Paper Cup

$$\sqrt{V = \frac{1}{3}\pi r^2 h}$$

$$\sqrt{V = \frac{1}{3}\pi(1.5)^2(5)}$$

$$\sqrt{V = \frac{1}{3}\pi(2.25)(5)}$$

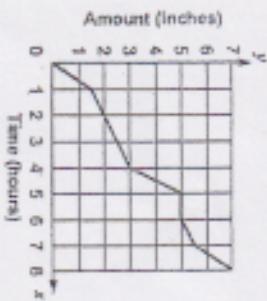
$$\sqrt{V = \frac{3.75}{3}\pi}$$

QUESTION #30

A weather station recorded the amount of rain that fell during an 8-hour time frame using a rain gauge. The findings are recorded in the graph below.

Between which hours was the rate at which the rain fell between hours 0 and 1 $\frac{1}{2}$ greater than the rate at which the rain

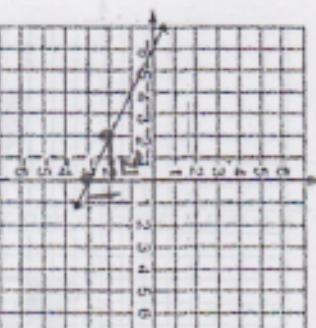
- A. between hours 1 and 4
 B. between hours 4 and 5
 C. between hours 5 and 6
 D. between hours 7 and 8



$$1.5 < 2$$

general representation of data

Use the graph below to answer the question.



$$y = -\frac{1}{2}x + 10$$

QUESTION #33

Which line represents the best fit for the scatter plot data?

- A. $y = \frac{1}{2}x + 3$
 B. $y = \frac{1}{2}x - 3$
 C. $y = -2x - 3$
 D. $y = 2x - 3$

