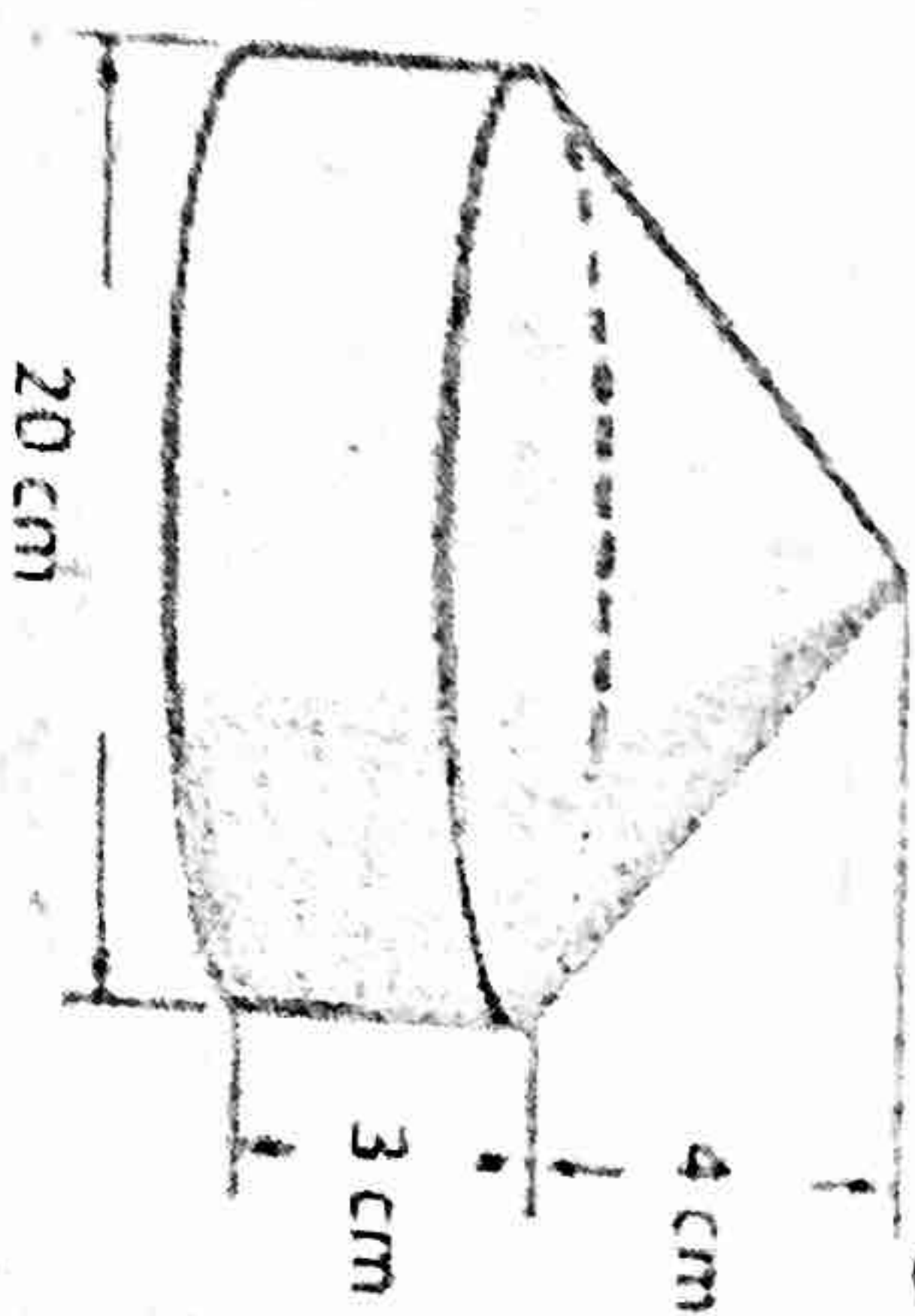


12. Classify π as rational or irrational and justify why.

irr - never stops
never repeats

17. Look at the cylindrical container with a cone shaped lid. What is the total volume of the container?

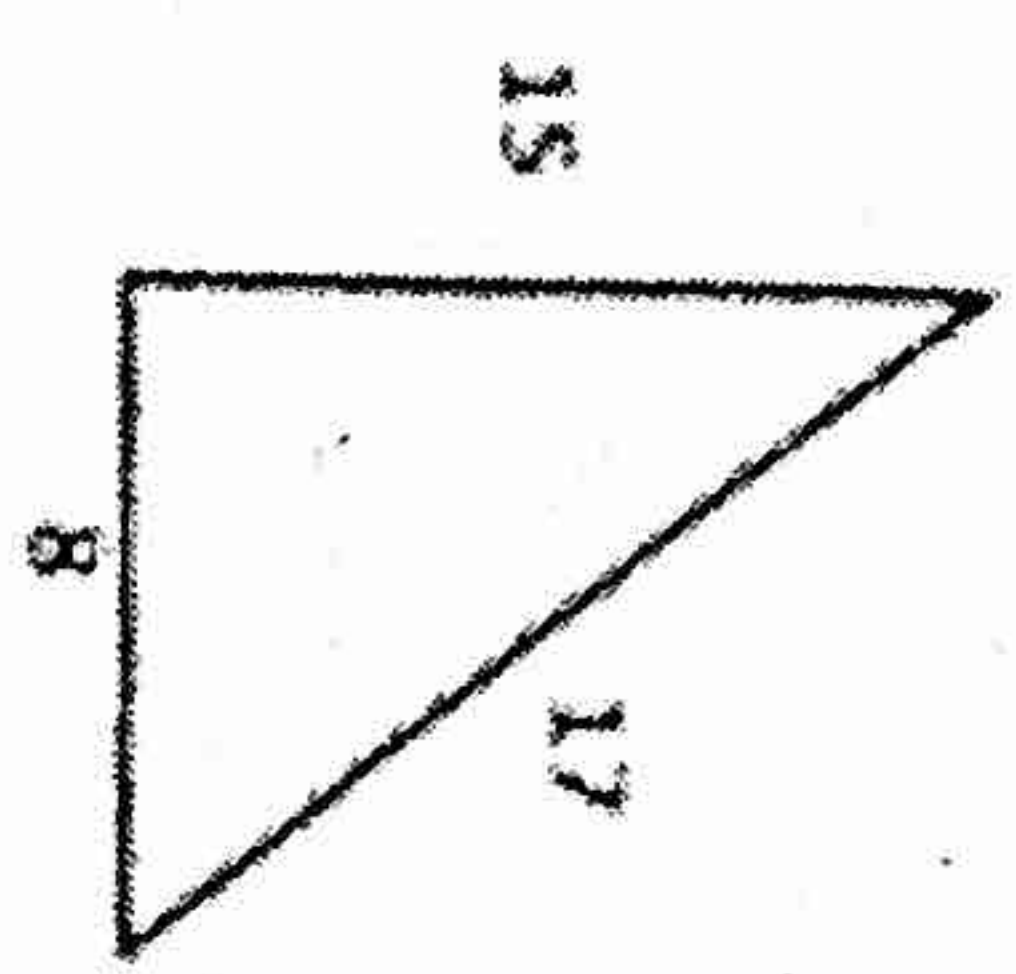


~~$V = \pi r^2 h$~~ $V = \pi r^2 h$
 $V = \pi (10)^2 (3)$
 $V = 300\pi$
 $V = \frac{1}{3} \pi r^2 h$
 $V = \frac{1}{3} \pi (10)^2 (4)$
 $V = \frac{400}{3} \pi$

13. Estimate:

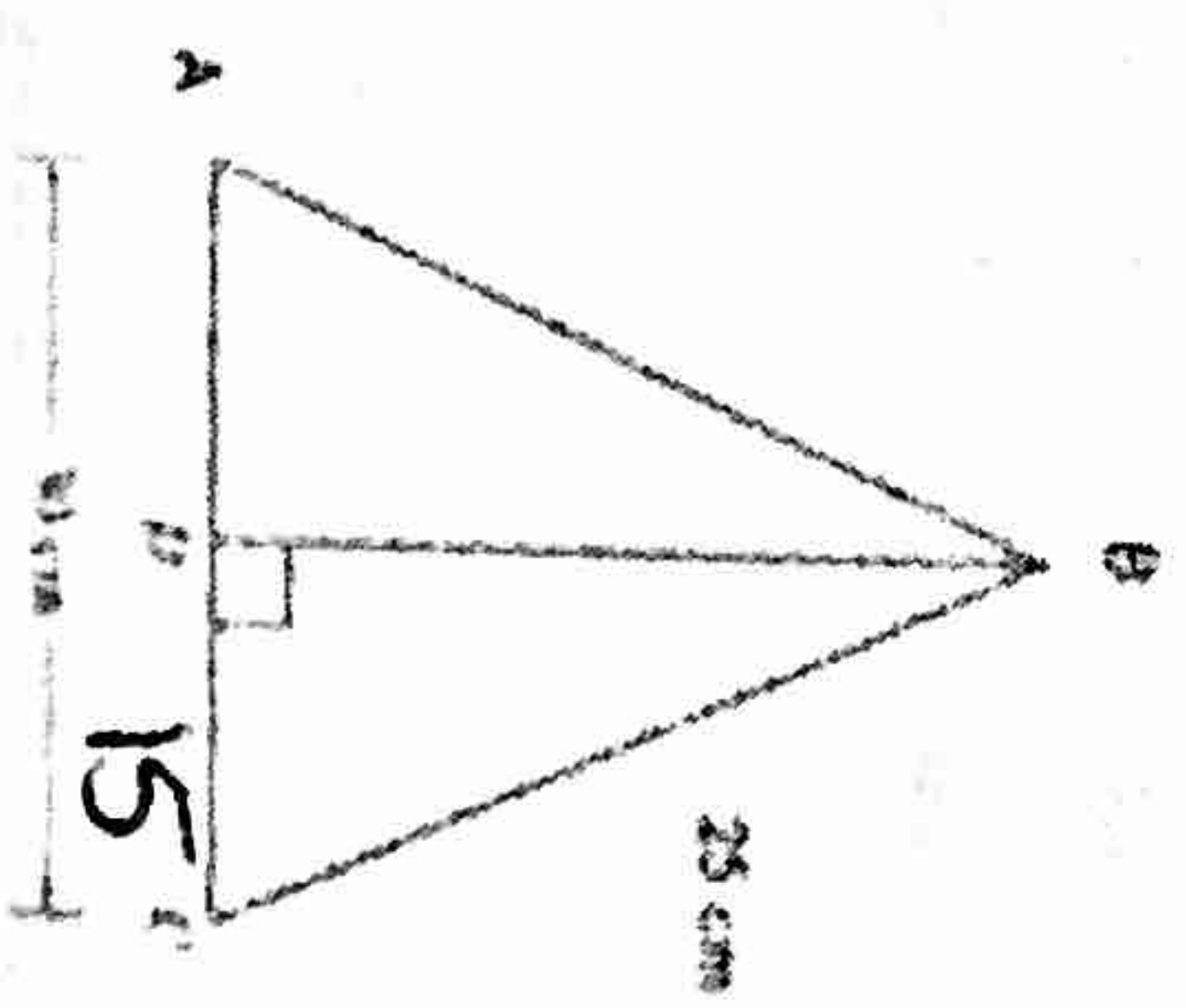
$\sqrt{185}$
 13 14 13.5

14. Is the triangle a right triangle? Justify your response.



64
 $+ 225$
 $\frac{289}{289}$ yes

15. Using the figure shown, what is the length of line BD?



625
 $- 225$
 $\frac{400}{400} = 20$

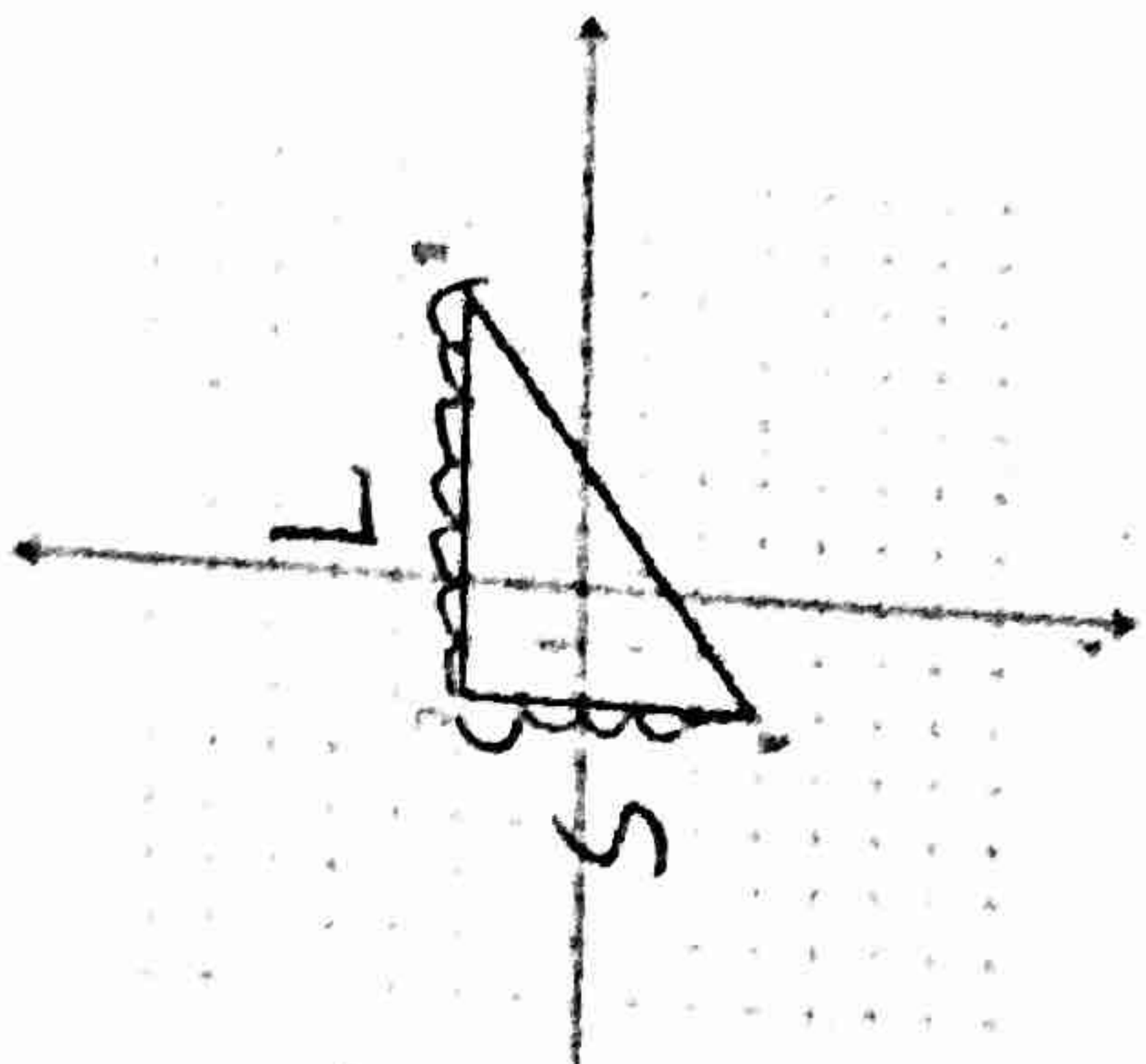
18. What value of x will make the relation a function?

$\{(2, 5), (-3, 4), (-4, -4), (x, -5)\}$

ANY besides (2, -4)

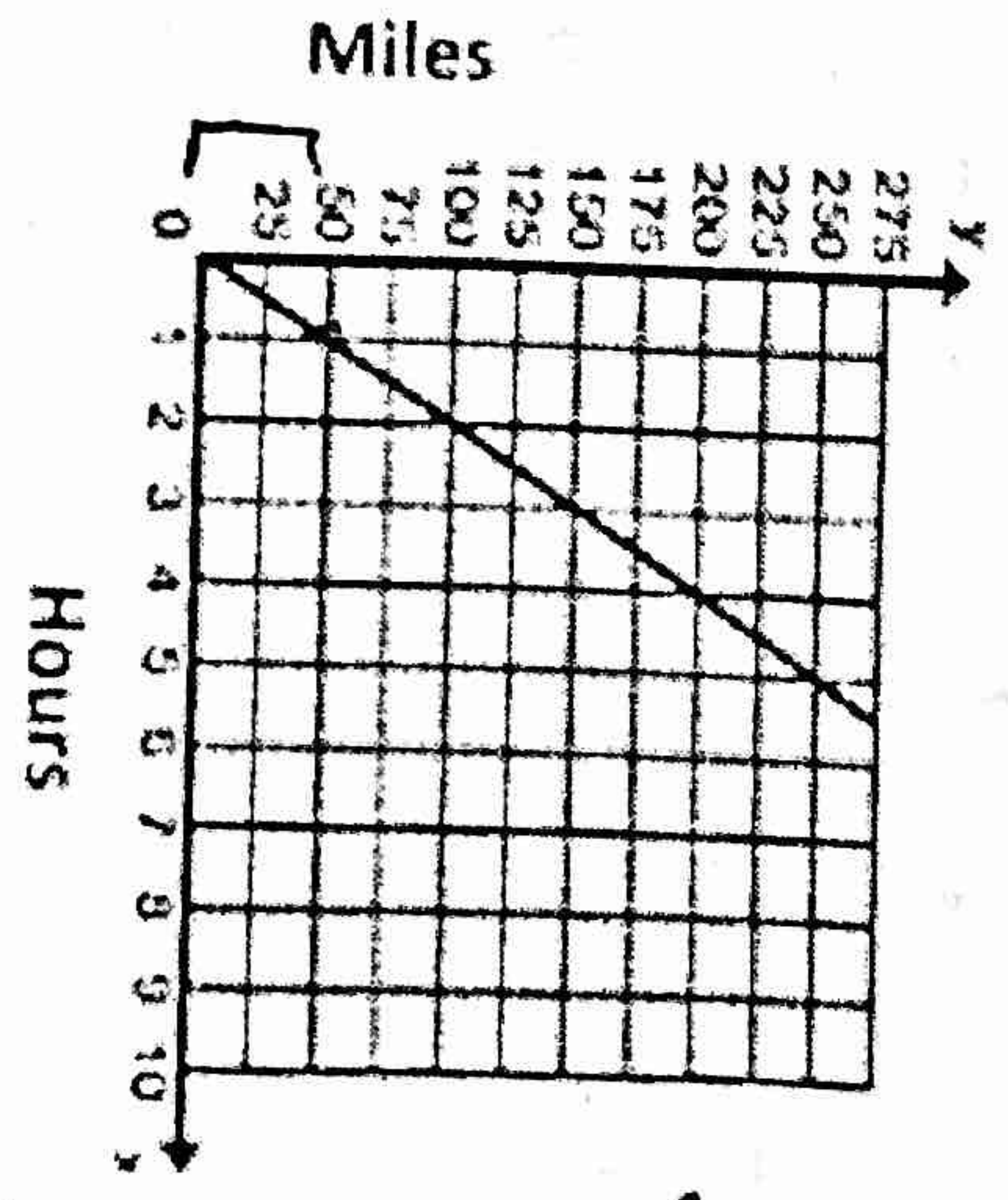
400 π
 100 π
 500 π
 1570

16. What is the approximate length of line AB?



25
 $+ 49$
 $\sqrt{74}$
 ≈ 8.5

19. On Friday, your family drove to Disney World. The graph shows the distance you traveled per hour on the way to Disney World. On Tuesday, you drove home and your speed was 10 miles per hour slower. How fast were you driving on your way home?



50
 40