

7. In the standard (x,y) coordinate plane, the graph of $(x+3)^2 + (y+5)^2 = 16$ is a circle.

What is the circumference of the circle, expressed in coordinate units.

- A. 4π
- B. 5π
- C. 3π
- D. 8π
- E. 25π

ALG 2 BELLWORK
WED. FEB 11, 2015

11. What are the values of a and b , if any, where $-a|b+4| > 0$?

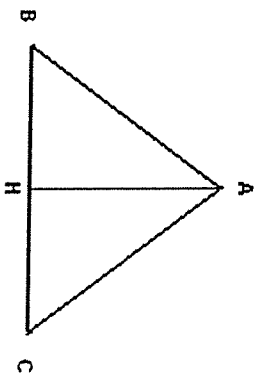
- A) $a > 0$ and $b \neq -4$
- B) $a > 0$ and $b \neq 4$
- C) $a < 0$ and $b \geq -4$
- D) $a < 0$ and $b \neq -4$
- E) $a < 0$ and $b \leq -4$

10 Angle A is an acute angle and $\sin A = \frac{11}{14}$. What is the $\cos A$.

- A. $\frac{3}{14}$
- B. $\frac{\sqrt{3}}{14}$
- C. $\frac{5\sqrt{3}}{14}$
- D. $\sqrt{\frac{3}{14}}$
- E. $\frac{5}{14}$

16. In the figure below $\triangle ABC$ is an equilateral triangle.

\overline{AH} is perpendicular to \overline{BC} and has a length of $2\sqrt{3}$ inches. What is the area, in square inches, of $\triangle ABC$?



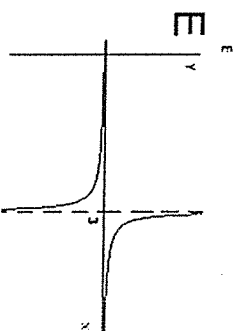
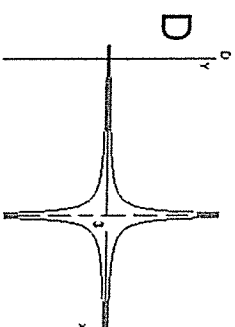
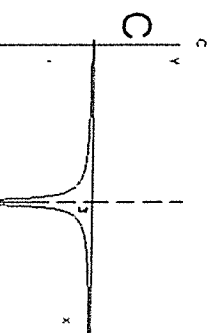
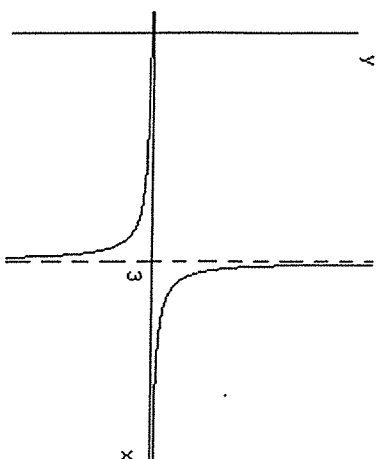
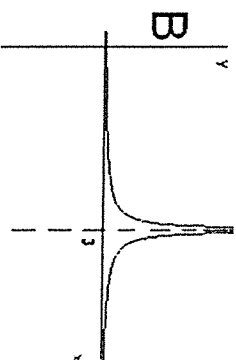
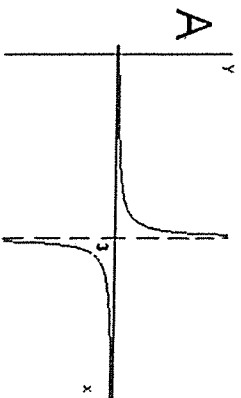
- A. 12
- B. $2\sqrt{3}$
- C. $4\sqrt{3}$
- D. $8\sqrt{3}$
- E. cannot be determined from the given information.

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21. If you drove at average speed of 66 miles per hour, what distance, in miles, did you drive in 99 minutes?

A) 1.5
B) 0.7
C) 65.34
D) 108.9
E) 150

Among the following, which is the best possible graphical representation of $y = \frac{-2}{|x-3|}$?



Bellwork Answers

7. D

10. C

11. D

16. C

21. D

24. C