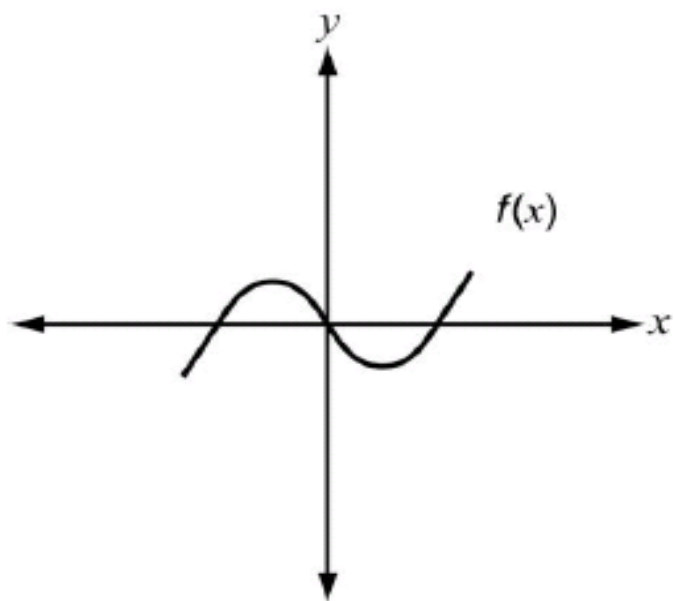
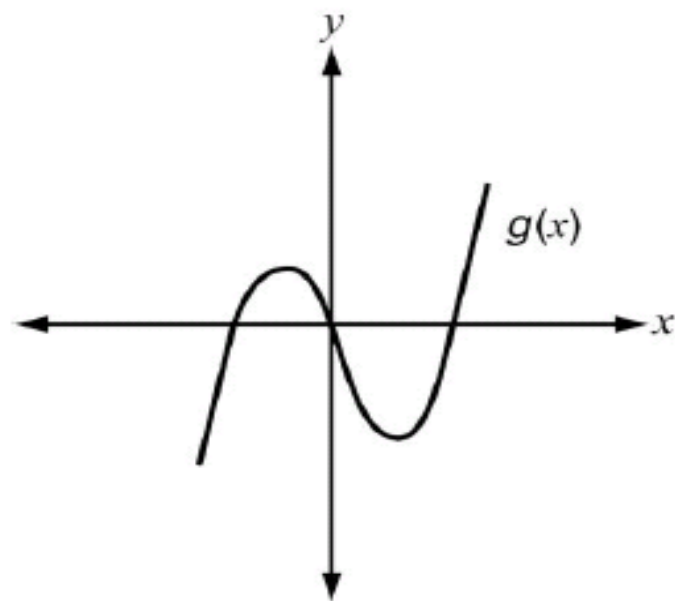


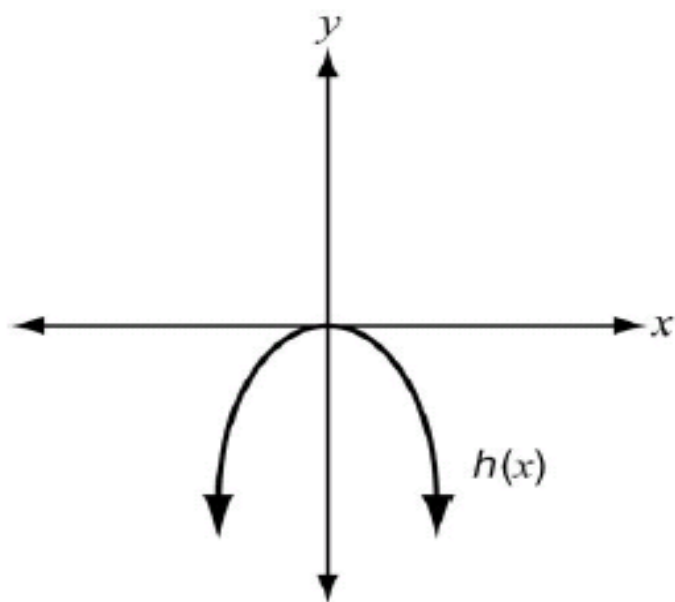
1. Which graph does **not** have any symmetry?



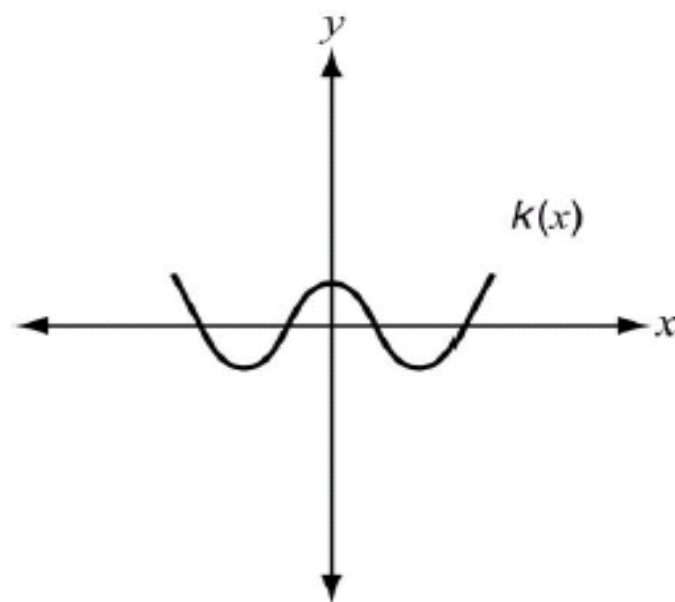
A.



B.

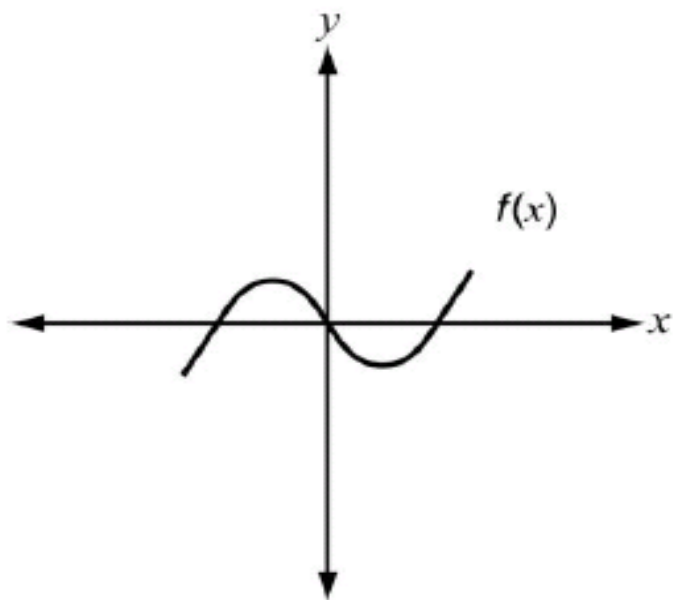


C.

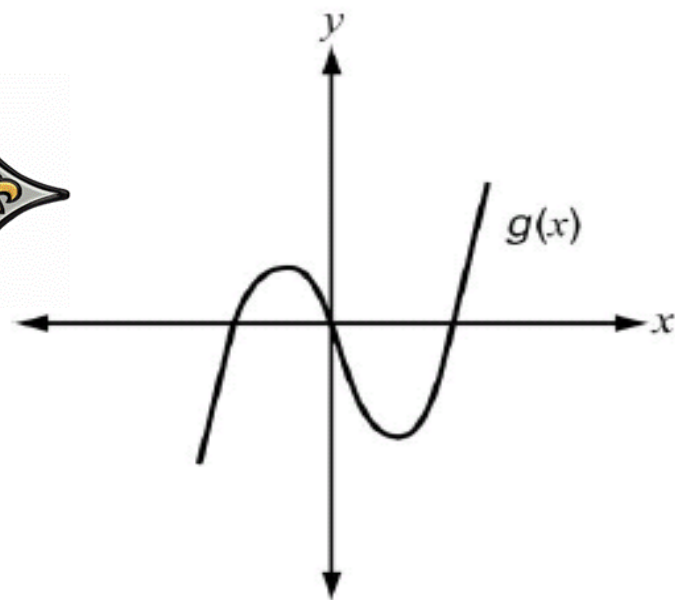


D.

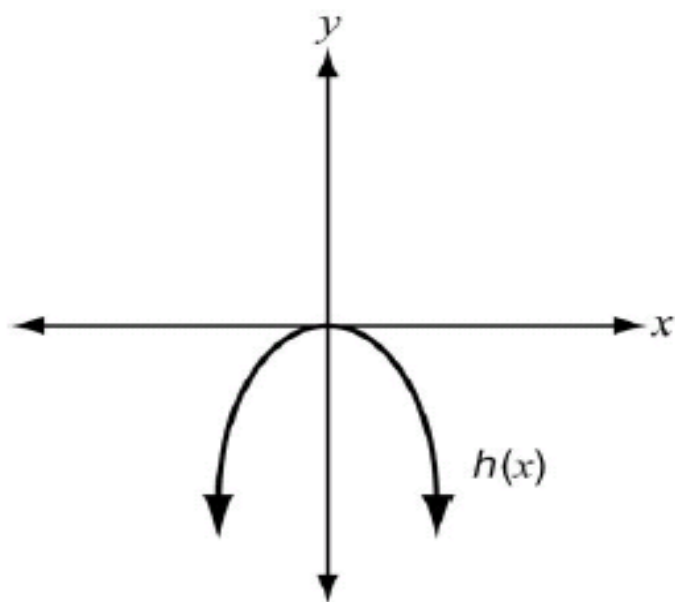
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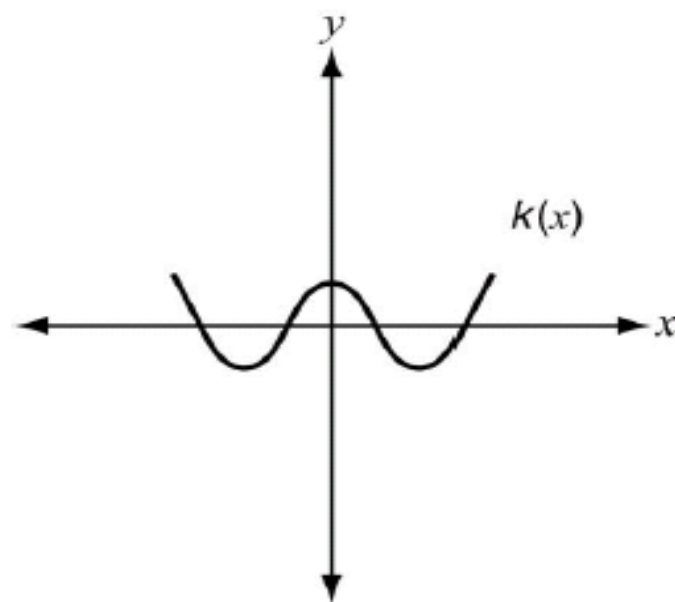
A.



B.



C.



D.

2. Which equation's solution is $x = 11j$?

A. $x^2 - 11 = 0$

B. $x^2 + 11 = 0$

C. $x^2 - 121 = 0$

D. $x^2 + 121 = 0$

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3. Triangle RST is isosceles.

- $\angle S = (4x + 2)^\circ$
- $\angle R = (6x + 8)^\circ$

Which of the following could be the measure of $\angle T$?

- A. 42°
- B. 50°
- C. 68°
- D. 80°

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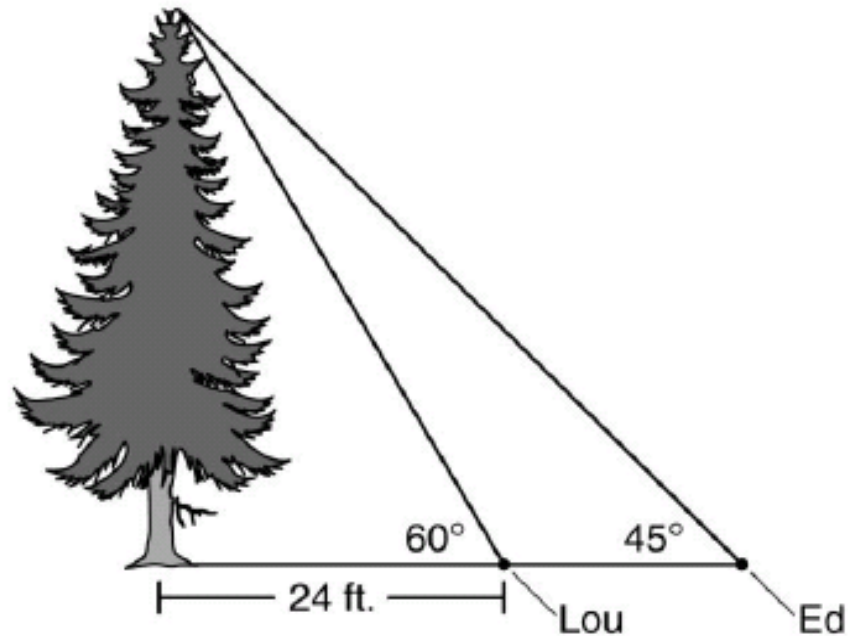
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4. Lou and Ed are lying on the ground and looking up at the top of a tree. This diagram shows their positions and the distance Lou is from the tree.

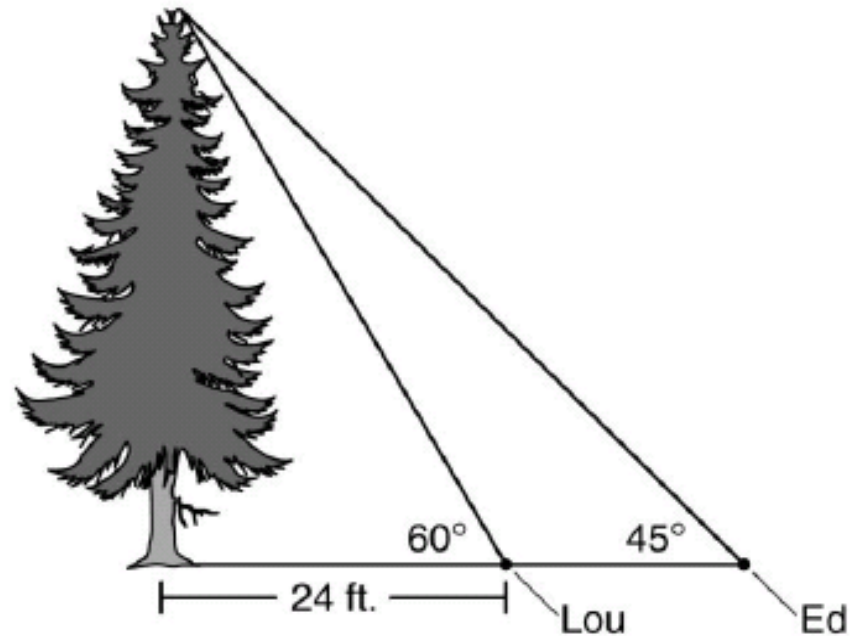


- Lou is looking up at a 60° angle.
- Lou is 24 feet from the base of the tree.
- Ed is looking up at a 45° angle.

What is the approximate distance between Lou and Ed?

- A. 42 ft.
- B. 24 ft.
- C. 18 ft.
- D. 10 ft.

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5. A student plotted points R and S on a coordinate grid.
- Point R is located at $(7, 2)$.
 - Point S is located at $(4, -2)$.

What is the distance between points R and S ?

- A. 3 units
- B. 5 units
- C. 10.2 units
- D. 11.7 units

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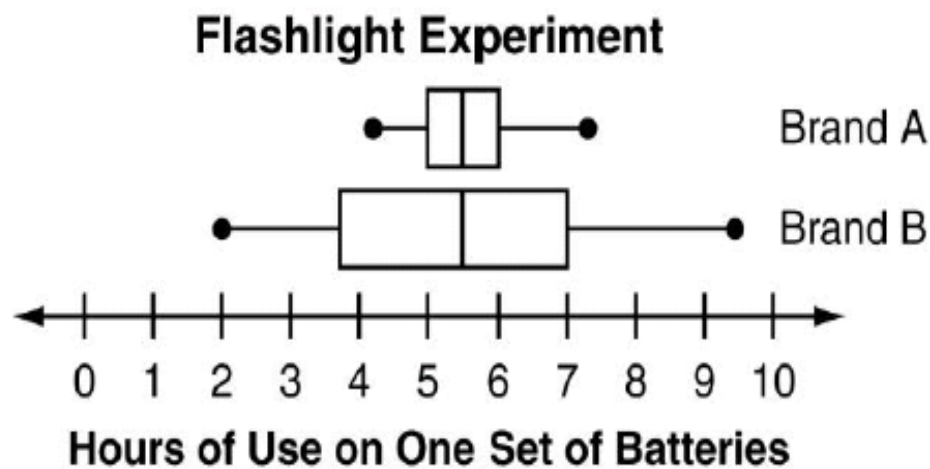


B. 5 units

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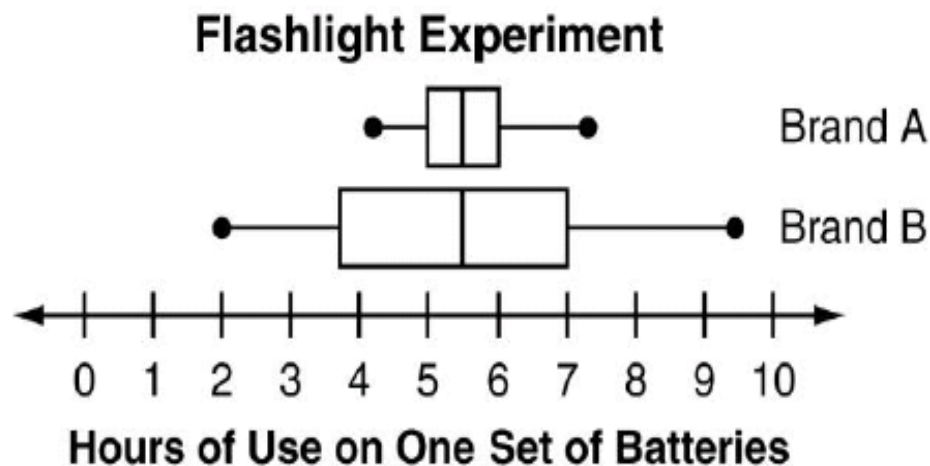
6. A study was conducted to compare the number of hours the same set of flashlights would run on two different battery brands. The results are represented in this double box-and-whisker plot.



Which statement is correct?

- A. Brand A is more likely than Brand B to last more than $5\frac{1}{2}$ hours.
- B. Brand A is less likely than Brand B to last more than $5\frac{1}{2}$ hours.
- C. Brand A is more likely than Brand B to last less than 4 hours.
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7. Hayden is working on a 50-piece puzzle. The puzzle has 22 edge pieces. The rest are inside pieces.

Hayden will pick two puzzle pieces at random. What is the probability that both of the puzzle pieces she picks will be inside pieces?

A. $\frac{14}{25}$

B. $\frac{54}{175}$

C. $\frac{189}{625}$

D. $\frac{196}{625}$

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