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Are you ready for the new SAT math?

Put your skills to the test with these SAT-style questions!

- 1) How many solutions could the following system of equations could have, if a , b , c , and d are constants?

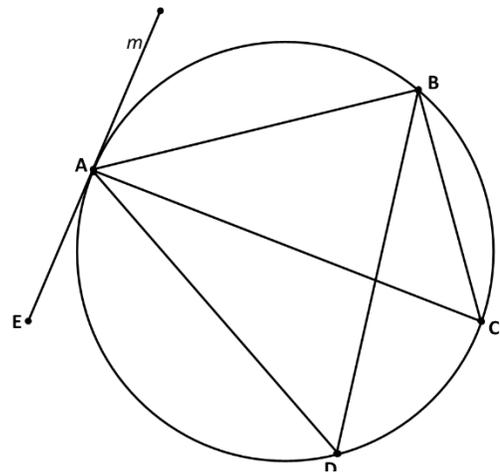
$$y = ax^2 + c$$

$$y = dx + b$$

- A) This system cannot have any solutions
 B) This system could have infinite solutions
 C) This system has one solution
 D) The system could have no solutions, one solution, or two solutions
- 2) A factory manufactures cans of spinach. For the jumbo deluxe can of gourmet spinach, they double the diameter of the original can and triple its height. What effect does this have on the volume of gourmet spinach the can is able to hold?
- A) The deluxe can holds 6 times as much as the original.
 B) The deluxe can holds 3 times as much as the original.
 C) The deluxe can holds 12 times as much as the original.
 D) The deluxe can holds 4 times as much as the original.

- 3) Which of the following statements is true regarding the figure below, given that \widehat{AC} is a diameter of the circle and line m is tangent to the circle at point A ?

- A) $\angle BAC \cong \angle BAD$
 B) $\angle ABC \cong \angle CAE$
 C) $m\widehat{DB} = 180^\circ$
 D) $m\widehat{AB} + m\widehat{AD} = m\widehat{DB}$



Answers: D, C, B