## Unit 4 Lesson 8 Cumulative Practice Problems

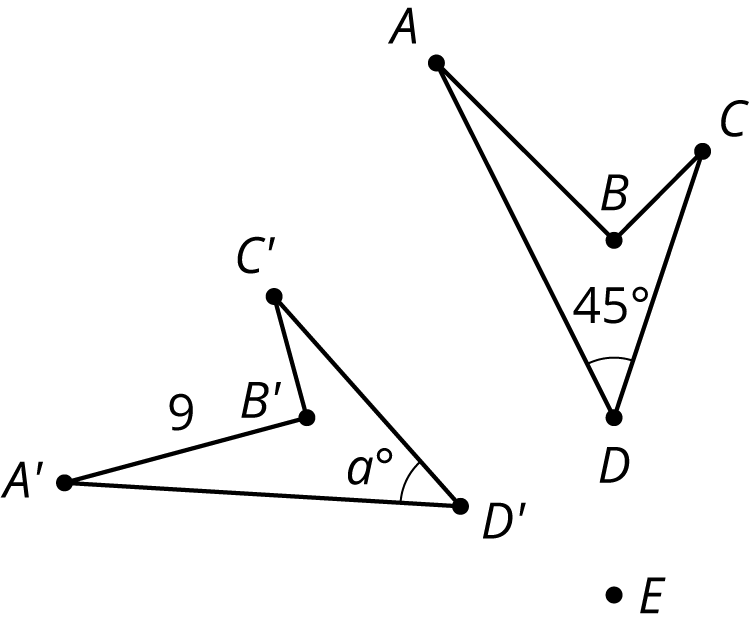
1. Lin was looking at the equation . She said, “I can tell right away there are no solutions, because on the left side, you will have and a bunch of constants, but you have just on the right side.” Do you agree with Lin? Explain your reasoning.
2. Han was looking at the equation . He said, “I can tell right away there are no solutions, because on the left side, you will have and a bunch of constants, but you have just on the right side.” Do you agree with Han? Explain your reasoning.
3. Decide whether each equation is true for all, one, or no values of .
4. Solve each of these equations. Explain or show your reasoning.

* (From Unit 4, Lesson 4.)

1. The points and are each on the graph of a linear equation. Is also on the graph of this linear equation? Explain your reasoning.

* (From Unit 3, Lesson 13.)

1. In the picture triangle is an image of triangle after a rotation. The center of rotation is .

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  1. What is the length of side ? Explain how you know.
  2. What is the measure of angle ? Explain how you know.
* (From Unit 1, Lesson 7.)



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