

## Really Sharp Triangles, Part II CQ

Attack this only if you have worked through Really Sharp Triangles, Part I.

Now you are not given an image, but your job is to create an image with  $n = 120$  in order to create 2 similar triangles with the following attributes:

1. The sharp angle is as sharp as possible.
2. The medium angle is  $45^\circ$  and it opens to the “northwest” just like the image in Part I did.
3. The image was created from the manual entry Stacked Stars *Excel* file.
4. The image was created in four jumps.
5. One triangle is as large as possible given the above conditions. One image has a horizontal longest side to the largest triangle, the other has a vertical longest side to the largest triangle.

Given this information, answer the following.

1. What is the sharp angle in degrees?
2. What is the obtuse angle in each triangle?
3. What is the sum of the first two jumps?
4. What is the sum of the last two jumps?
5. What are all four jumps if the longest side of the largest triangle is horizontal? (Hint: There are two correct answers to this question.)
6. Which of the four lines drew the longest side of the largest triangle?
7. What are all four jumps if the longest side of the largest triangle is vertical? (Hint: There are two correct answers to this question.)
8. Which of the four lines drew the longest side of the largest triangle?