

## Image Analysis

The image below uses the  $S$  and  $P$  values used in the explainers for this chapter. The curves provide the ability to do clock arithmetic on  $J_1$ ,  $J_2$ , and  $J_3$ .

1. There are two possible jump triples. One set is:  $J_1 = \_$ ,  $J_2 = \_$ , and  $J_3 = \_$  and the other is:  $J_1 = \_$ ,  $J_2 = \_$ , and  $J_3 = \_$ .
2. How do these two sets of values relate to one another?
3. The image has a number of long, thin, similar triangles. What are the angles for these triangles and how do you know that these are the angles?
4. How many such triangles are in the image?
5. How many squares are in the image?
6. How many rectangles that are not squares are in the image?

Hint: If you are having trouble answering questions 4-6, it may help to turn off all but one of the colors and set  $S = P$  so you see just the vertex frame.

