

# Sam the Butterfly

Open the “Sam the Butterfly” starter file and press “Run”. Hi, Sam!

Move Sam around the screen using the arrow keys.

1) What changes as the butterfly moves left and right?

---

Sam is in a  $640 \times 480$  yard. Sam's mom wants Sam to stay in sight.

How far to the left and right can Sam go and still remain visible?

Use the new inequality functions to answer the following questions *with code* :

2) Sam hasn't gone off the left edge of the screen as long as...

---

2) Sam hasn't gone off the right edge of the screen as long as...

---

4) Use the space below to draw Circles of Evaluation for these two expressions: