Ellipse

Calculation

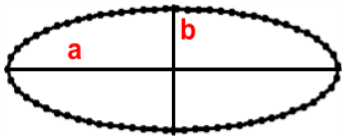
20 x 59,8 mm

MATH

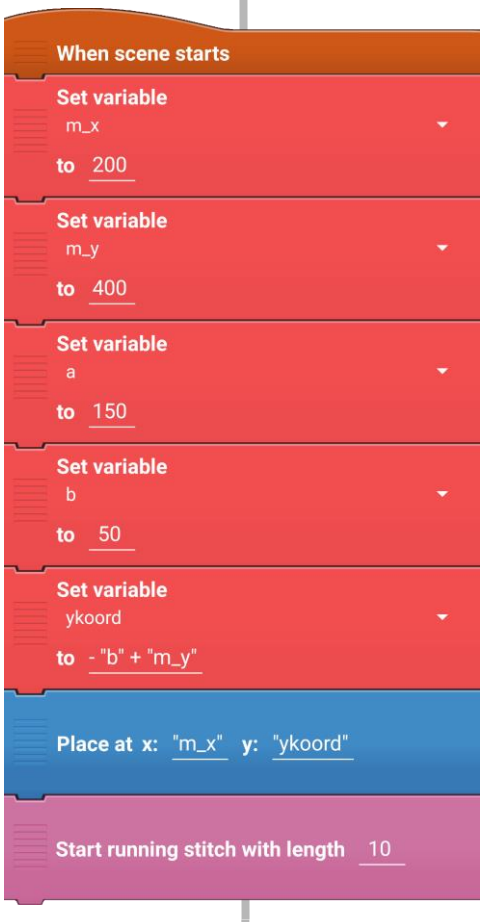
1 Create a new object *(I. Embroidery-Objects tutorial).*

Equation of the ellipse:
$(x - m\_x)^2 \div a^2 + (y - m\_y)^2 \div b^2 = 1$

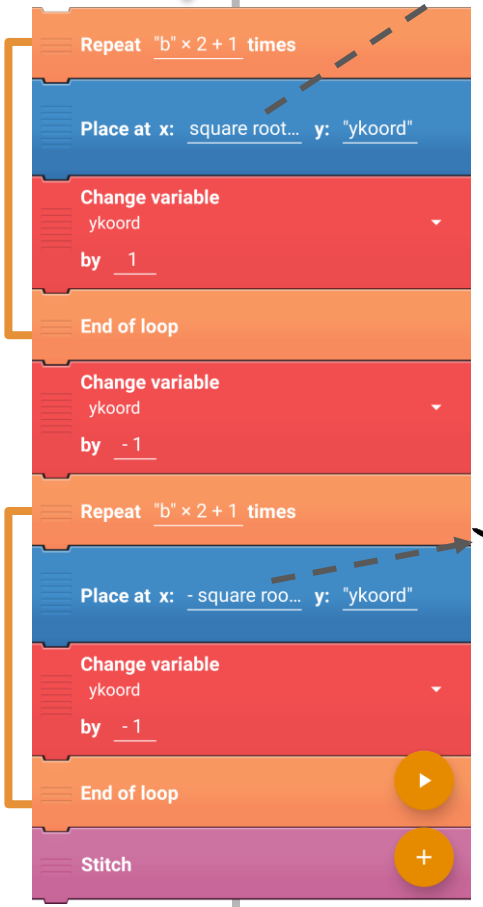
m_x is the x-coordinate of the center.
m_y is the y-coordinate of the center.
The **width** is the double of a.
The **height** is the double of b.



2

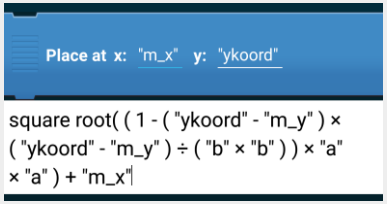


This part belongs to point 2.



Calculate the x-coordinate

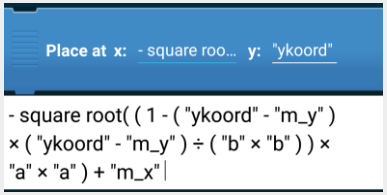
for the right side.
Reshape the equation of the ellipse:



Tip: You find the math functions in „Functions“ in the formal editor.

Calculate the x-coordinate

for the left side of the ellipse.



3 If it doesn‘t work, control the bricks.

TU Graz · CODE'N'STITCH · bits4kids