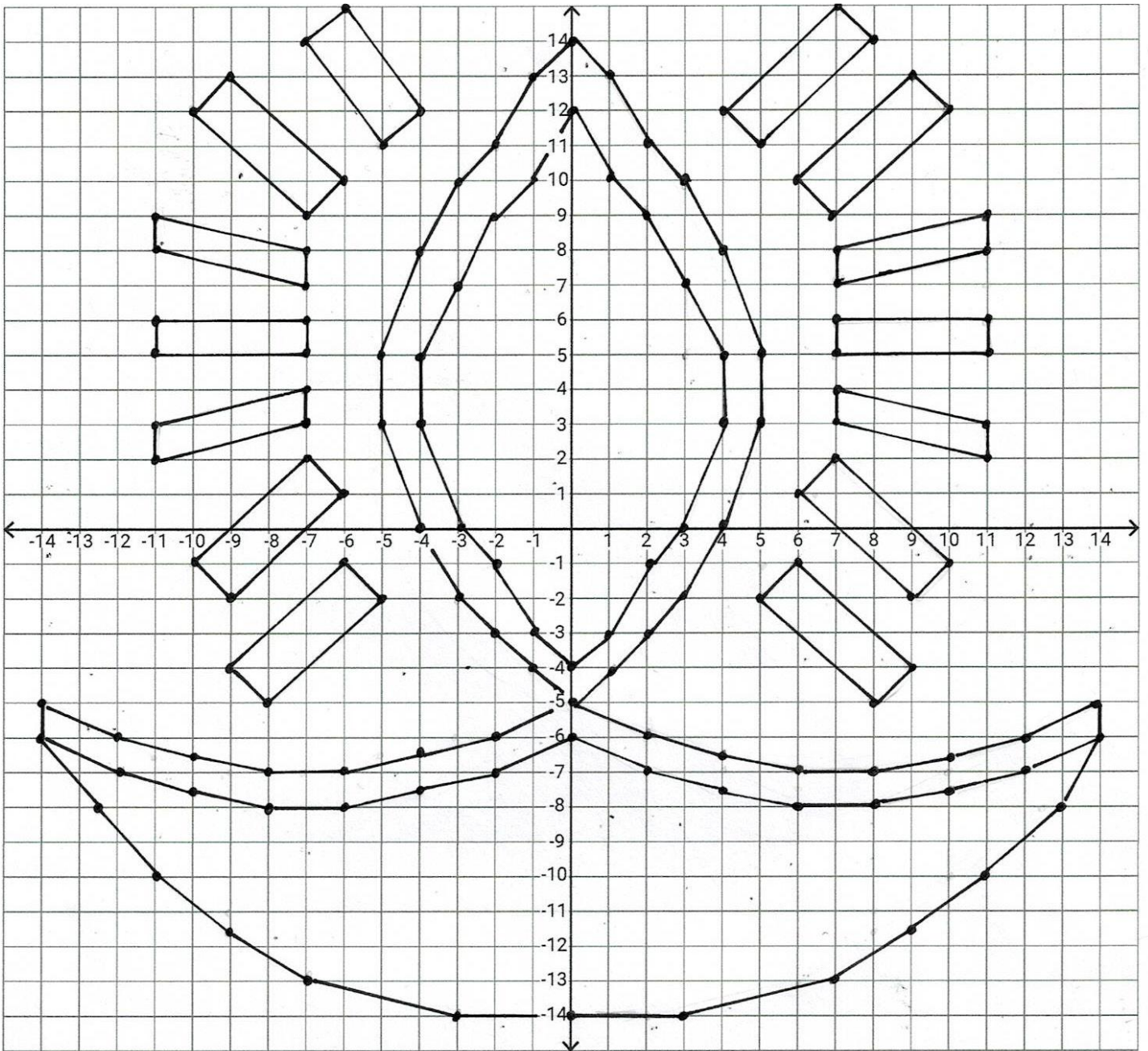
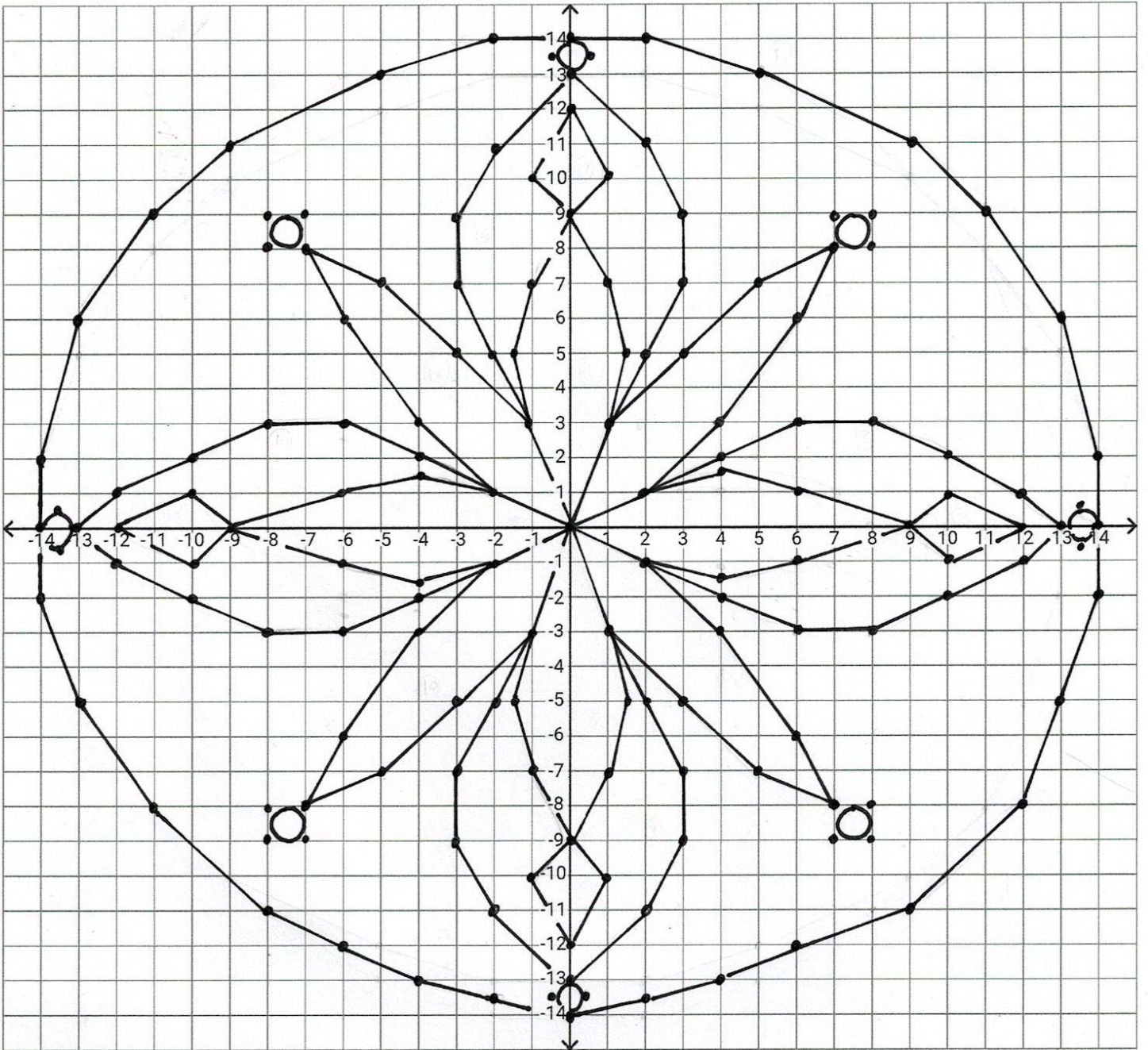


Answers - Picture 1

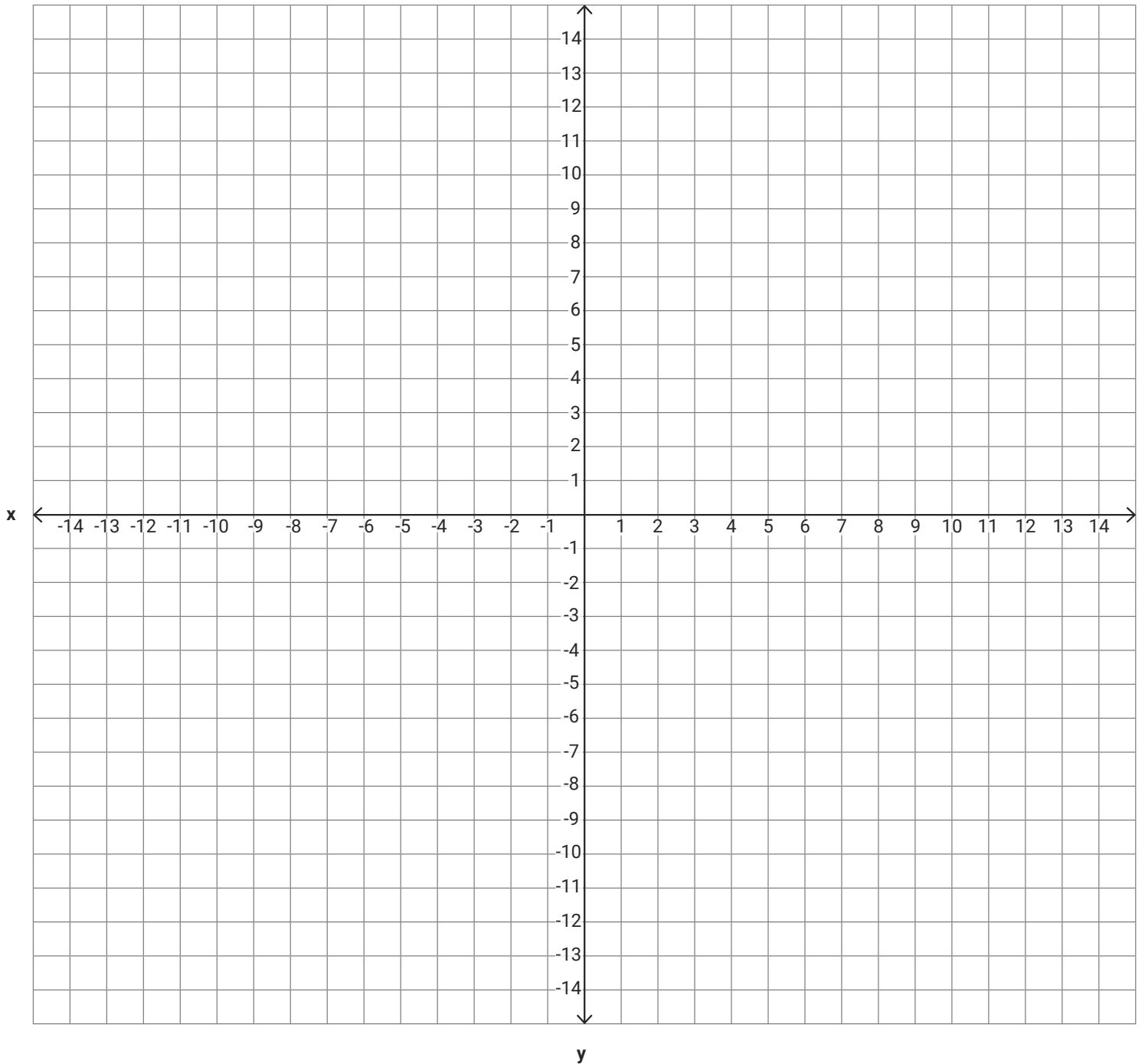


Answers - Picture 2



Diwali Cartesian Coordinates

Glue a blank cartesian coordinates graph sheet into your maths book. Graph and connect each consecutive point with a line until you reach the word *STOP*. Then, start the next set of coordinates and repeat the process until your picture emerges. Colour it in when you're done!



Diwali Picture One (Medium Level)

Remember, the first number is the x -axis and the second number is the y -axis.

$(-14,-6), (-12.5,-8), (-11,-10), (-9,-11.5), (-7,-13), (-3,-14), (0,-14), (3,-14), (7,-13), (9,-11.5), (11,-10), (13,-8), (14,-6)$ STOP

$(-14,-6), (-12,-7), (-10,-7.5), (-8,-8), (-6,-8), (-4,-7.5), (-2,-7), (0,-6), (2,-7), (4,-7.5), (6,-8), (8,-8), (10,-7.5), (12,-7), (14,-6)$ STOP

$(-14,-6), (-14,-5), (-12,-6), (-10,-6.5), (-8,-7), (-6,-7), (-4,-6.5), (-2,-6), (0,-5), (2,-6), (4,-6.5), (6,-7), (8,-7), (10,-6.5), (12,-6), (14,-5), (14,-6)$ STOP

$(0,-5), (-1,-4), (-2,-3), (-3,-2), (-4,0), (-5,3), (-5,5), (-4,8), (-3,10), (-2,11), (-1,13), (0,14), (1,13), (2,11), (3,10), (4,8), (5,5), (5,3), (4,0), (3,-2), (2,-3), (1,-4), (0,-5)$ STOP

$(0,-4), (-1,-3), (-2,-1), (-3,0), (-4,3), (-4,5), (-3,7), (-2,9), (-1,10), (0,12), (1,10), (2,9), (3,7), (4,5), (4,3), (3,0), (2,-1), (1,-3), (0,-4)$ STOP

$(-6,-1), (-5,-2), (-8,-5), (-9,-4), (-6,-1)$ STOP

$(-6,1), (-7,2), (-10,-1), (-9,-2), (-6,1)$ STOP

$(-7,3), (-7,4), (-11,3), (-11,2), (-7,3)$ STOP

$(-7,5), (-7,6), (-11,6), (-11,5), (-7,5)$ STOP

$(-7,7), (-7,8), (-11,9), (-11,8), (-7,7)$ STOP

$(-7,9), (-6,10), (-9,13), (-10,12), (-7,9)$ STOP

$(-5,11), (-4,12), (-6,15), (-7,14), (-5,11)$ STOP

$(6,-1), (5,-2), (8,-5), (9,-4), (6,-1)$ STOP

$(6,1), (7,2), (10,-1), (9,-2), (6,1)$ STOP

$(7,3), (7,4), (11,3), (11,2), (7,3)$ STOP

$(7,5), (7,6), (11,6), (11,5), (7,5)$ STOP

$(7,7), (7,8), (11,9), (11,8), (7,7)$ STOP

$(7,9), (6,10), (9,13), (10,12), (7,9)$ STOP

$(5,11), (4,12), (7,15), (8,14), (5,11)$ STOP

Diwali Picture Two (Challenging)

Remember, the first number is the x-axis and the second number is the y-axis.

(0,14), (2,14), (5,13), (9,11), (11,9), (13,6), (14,2), (14,0), (14,-2), (13,-5),
(12,-8), (9,-11), (6,-12), (4,-13), (2, -13.5), (0,-14), (-2,-13.5), (-4,-13),
(-6,-12), (-8,-11), (-11,-8), (-13,-5), (-14,-2), (-14,0), (-14,2), (-13,6),
(-11,9), (-9,11), (-5,13), (-2,14), (0,14) STOP

(7,8), (6,6), (4,3), (2,1), (0,0), (1,3), (3,5), (5,7), (7,8) STOP

(2,1), (4,2), (6,3), (8,3), (10,2), (12,1), (13,0), (12,-1), (10,-2), (8,-3), (6,-3),
(4,-2), (2,-1) STOP

(2,1), (4,1.5), (6,1), (9,0), (6,-1), (4,-1.5), (2,-1), (0,0) STOP

(9,0), (10,1), (12,0) (10,-1) (9,0) STOP

(2,-1), (4, -3), (6, -6), (7, -8), (5,-7), (3, -5), (1,-3), (0,0) STOP

(1, -3), (2, -5), (3,-7), (3, -9), (2,-11), (0, -13), (-2,-11), (-3,-9), (-3, -7),
(-2, -5), (-1,-3), (0,0) STOP

(1,-3), (1.5,-5), (1, -7), (0,9), (-1,-7), (-1.5, -5), (-1,-3) STOP

(0,-9), (1, -10), (0,-12), (-1, -10), (0,9) STOP

(-1,-3), (-3,-5), (-5,-7), (-7,-8) (-6,-6), (-4,-3) (-2, -1), (0,0) STOP

(-2,-1), (-4,-2), (-6,-3), (-8,-3), (-10,-2), (-12,-1), (-13,0), (-12,1), (-10,2),
(-8,3), (-6,3), (-4,2), (-2,1), (0,0) STOP

$(-2,1), (-4,1.5), (-6,1), (-9,0), (-6,-1), (-4,-1.5), (-2,-1)$ STOP

$(-9,0), (-10,1), (-12,0), (-10,-1), (-9,0)$ STOP

$(-2,1), (-4,3), (-6,6), (-7,8), (-5,7), (-3,5), (-1,3), (0,0)$ STOP

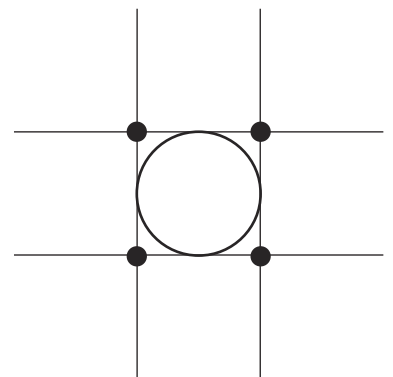
$(-1,3), (-2,5), (-3,7), (-3,9), (-2,11), (0,13), (2,11), (3,9), (3,7), (2,5), (1,3)$
STOP

$(-1,3), (-1.5,5), (-1,7), (0,9), (1,7), (1.5,5), (1,3)$ STOP

$(0,9), (-1,10), (0,12), (1,10), (0,9)$ STOP

Find these four sets of four coordinates, and draw a circle inside them.

Your circle should look something like this:



$(-8,-8), (-7,-8), (-7,-9), (-8,-9)$ STOP (Draw in your circle)

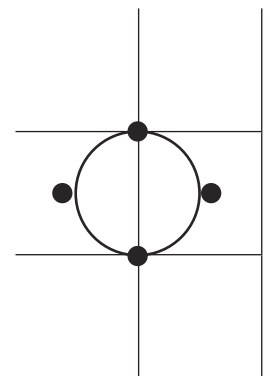
$(-8,8), (-7,8), (-7,9), (-8,9)$ STOP (Draw in your circle)

$(8,8), (7,8), (7,9), (8,9)$ STOP (Draw in your circle)

$(8,-8), (7,-8), (7,-9), (8,-9)$ STOP (Draw in your circle)

Find these four sets of four coordinates, and draw a circle inside them.

Your circle should look something like this:



$(0,13), (-0.5,13.5), (0,14), (0.5,13.5)$ STOP (Draw in your circle)

$(13,0), (13.5,0.5), (14,0), (13.5,-0.5)$ STOP (Draw in your circle)

$(0,-13), (-0.5,-13.5), (0,-14), (0.5,-13.5)$ STOP (Draw in your circle)

$(-13,0), (-13.5,0.5), (-14,0), (-13.5,-0.5)$ STOP (Draw in your circle)