

Name : _____

Score : _____

Teacher : _____

Date : _____

Sonic

For each Shape plot the ordered pairs on the axis and connect them in order.
Do not connect the Shapes to each other.

Shape 1

$(-5,-12)$, $(-6,-12.5)$, $(-7,-13)$, $(-8,-14)$, $(-7.5,-14.5)$, $(-6,-15)$, $(-5,-15)$, $(-5,-14)$, $(-5.5,-13)$, $(-6,-12.5)$

Shape 2

$(-5,-15)$, $(-3.5,-14.5)$, $(-3.5,-14)$, $(-4,-13)$, $(-5,-12)$, $(-4,-12)$, $(-3,-12.5)$, $(-2,-12.5)$, $(-1.5,-13)$, $(-1.5,-13.5)$
 $(-2,-14)$, $(-3.5,-14.5)$

Shape 3

$(-4,-12)$, $(-4,-11.5)$, $(-3.5,-11.5)$, $(-3.5,-11)$, $(-3.5,-10.5)$, $(-3,-10.5)$, $(-3,-11)$, $(-2.5,-11.5)$, $(-2,-11.5)$, $(-1.5,-11)$
 $(-1.5,-11.5)$, $(-2,-12)$, $(-1.5,-12.5)$, $(-2,-12.5)$

Shape 4

$(2.5,-14.5)$, $(4,-15)$, $(5,-15)$, $(6.5,-14.5)$, $(6,-13.5)$, $(5,-12.5)$, $(4.5,-13)$, $(4,-14)$, $(4,-15)$

Shape 5

$(5,-12.5)$, $(4,-12)$, $(3,-13)$, $(2.5,-14)$, $(2.5,-14.5)$, $(1,-14)$, $(.5,-13.5)$, $(.5,-13)$, $(1,-12.5)$, $(2,-12.5)$
 $(3,-12)$, $(4,-12)$, $(5,-12.5)$

Shape 6

$(1,-12.5)$, $(.5,-12)$, $(1,-12)$, $(.5,-11.5)$, $(.5,-11)$, $(1,-11)$, $(1,-11.5)$, $(2,-11.5)$, $(2,-11)$, $(3,-11)$
 $(2.5,-11.5)$, $(3,-12)$, $(2,-12.5)$, $(1,-12.5)$

Shape 7

$(1,-11)$, $(1,-10)$, $(.5,-9)$, $(-1,-9.5)$, $(-1.5,-11)$

Shape 8

$(2,-11)$, $(2.5,-10)$, $(2,-9.5)$, $(2,-9)$, $(2,-8)$, $(2,-7.5)$, $(2.5,-7.5)$, $(3,-7.5)$, $(3.5,-8)$, $(3,-8.5)$
 $(3,-9.5)$, $(2.5,-9.5)$, $(2,-9.5)$

Shape 9

$(2.5,-7.5)$, $(2.5,-8)$, $(2.5,-8.5)$

Shape 10

$(3,-7.5)$, $(3.5,-7.5)$, $(4,-7)$, $(3.5,-6)$, $(2.5,-5)$, $(1.5,-4)$, $(2,-5)$, $(2.5,-6)$, $(2,-7)$, $(2,-7.5)$

Shape 11

$(2.5,-6)$, $(3,-6.5)$, $(2,-7)$

Shape 12

$(1.5,-4)$, $(-5,-4)$, $(-1.5,-5)$, $(-2,-6)$, $(-2,-7)$, $(-1,-8)$, $(0,-8.5)$, $(1.5,-8)$, $(2,-7.5)$

Shape 13

$(-3,-10.5)$, $(-3,-10)$, $(-4,-9.5)$, $(-4.5,-9)$, $(-4.5,-8.5)$, $(-4,-8)$, $(-3,-8)$, $(-3,-7)$, $(-3.5,-7)$, $(-3,-6.5)$
 $(-2.5,-7)$, $(-2.5,-7.5)$, $(-2,-8)$, $(-2,-9.5)$, $(-3,-10)$



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Shape 14

$(-4,-8)$, $(-3.5,-8.5)$, $(-3.5,-9)$

Shape 15

$(-3.5,-8.5)$, $(-3,-8.5)$

Shape 16

$(-3,-6.5)$, $(-3,-6)$, $(-2.5,-5.5)$, $(-2,-4.5)$, $(-2.5,-4)$, $(-3,-4.5)$, $(-4,-5)$, $(-5,-6)$, $(-5.5,-7)$, $(-5,-7.5)$, $(-4,-8)$

Shape 17

$(-3.5,-7)$, $(-4,-6.5)$, $(-3,-6)$, $(-3,-6.5)$

Shape 18

$(-1.5,-3)$, $(-1,-3.5)$, $(-.5,-4)$, $(-1,-3.5)$, $(-2,-3.5)$, $(-3,-2.5)$, $(-3.5,-2)$, $(-4,-1)$, $(-3,0)$, $(-2,-.5)$
 $(-1,-1)$, $(0,-1.5)$, $(1,-1)$, $(2,-.5)$, $(3,-.5)$, $(3.5,-1)$, $(4,-.5)$, $(4.5,-.5)$, $(4,-1.5)$, $(3.5,-1.5)$, $(3.5,-1)$

Shape 19

$(1.5,-4)$, $(2.5,-3)$, $(3,-3)$, $(4,-2.5)$, $(4.5,-2)$, $(4,-1.5)$

Shape 20

$(-1,-1.5)$, $(-1.5,-2)$, $(0,-2.5)$, $(1,-3)$, $(2,-3)$, $(1,-3.5)$, $(0,-3.5)$, $(-1,-3)$, $(-1.5,-2)$, $(-1.5,-2.5)$

Shape 21

$(-2,-.5)$, $(-2.5,0)$, $(-3,1)$, $(-3,3)$, $(-2.5,4)$, $(-1,5)$, $(.5,4.5)$, $(1.5,3.5)$, $(2.5,2.5)$, $(3.5,3)$
 $(4.5,3.5)$, $(5,3)$, $(5.5,2)$, $(5,1)$, $(5,0)$, $(4.5,-.5)$

Shape 22

$(-2.5,-4)$, $(-2.5,-3.5)$, $(-3,-3)$, $(-4,-3)$, $(-6,-3.5)$, $(-8,-4)$, $(-7.5,-1.5)$, $(-6.5,0)$, $(-6,1)$, $(-8,1.5)$
 $(-11,2)$, $(-9.5,4)$, $(-8,5)$, $(-5.5,5.5)$

Shape 23

$(-4.5,3.5)$, $(-5,4.5)$, $(-5.5,5.5)$, $(-5.5,6.5)$, $(-4.5,6.5)$, $(-4,6.5)$, $(-3,6)$, $(-2,5.5)$

Shape 24

$(-4,4)$, $(-4.5,5)$, $(-5,6)$, $(-4,6)$, $(-2.5,5.5)$, $(-3,4.5)$, $(-4,4)$

Shape 25

$(5,3)$, $(4.5,4)$, $(5.5,5)$, $(5.5,6)$, $(4,6.5)$, $(3,6)$, $(3.5,5.5)$, $(4,5)$, $(4.5,4)$, $(5,5.5)$, $(4,5.5)$, $(3.5,5.5)$

Shape 26

$(3,6)$, $(1.5,6.5)$, $(0,9)$, $(-3,11)$, $(-6.5,11.5)$, $(-5,9)$, $(-4.5,8)$, $(-4.5,6.5)$

Draw a .5 radius circle around these points.

$(-.5,.5)$ and $(3.5,.5)$





