

TRICK OR TRANSFORM

For each section, plot the point and then perform the indicated translations. Connect the dots as you go to complete the picture.

Plot (-6,0)

Translate

Translate

Translate

Plot (0,0)

Translate

Translate

Translate

Plot (4,3)

Translate

Translate

Translate

Plot (2,-5)

Translate

Translate

Translate

Translate

Translate

Translate

Translate

Translate

Translate

Translate

Translate

Plot (-1,4)

Translate

Translate

Translate

Translate

Translate

Translate

Translate

Translate

Translate

Plot (4,-8)

Translate

Translate

Translate

Translate

Translate

Translate

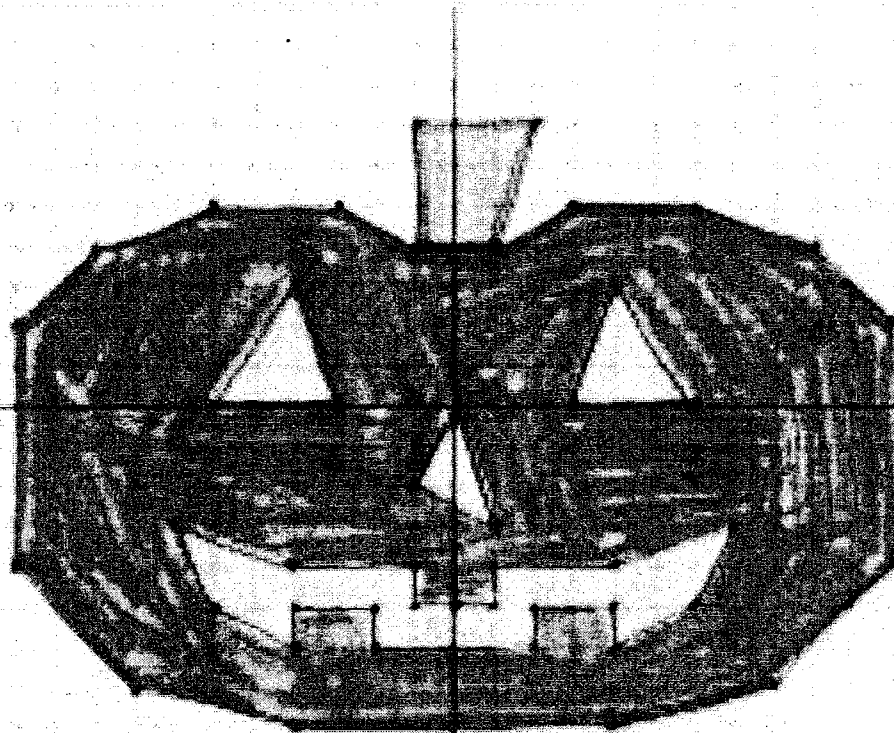
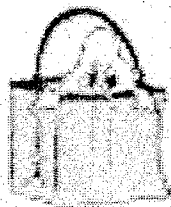
Translate

Translate

Translate

Translate

Translate



ANSWER KEY



TRICK OR TRANSFORM

NAME _____

FIGURE 1:

Plot $(-12,4)$

$T_{\langle 0,4 \rangle}$

$T_{\langle 1,1 \rangle}$

$T_{\langle 3,0 \rangle}$

$T_{\langle 1,-1 \rangle}$

$T_{\langle 0,-4 \rangle}$

$T_{\langle -1,-1 \rangle}$

$T_{\langle -3,0 \rangle}$

$T_{\langle -1,1 \rangle}$

FIGURE 2:

Plot $(-12,8)$

$T_{\langle -2,1 \rangle}$

$T_{\langle 1,2 \rangle}$

Plot $(-12,7)$

$T_{\langle -2,0 \rangle}$

$T_{\langle -1,2 \rangle}$

FIGURE 3:

$R_{x=-9.5}$ (figure 2)

FIGURE 4:

$R_{y=6}$ (figure 3)

SPIDER #2:

Translate Spider # 1 16 units to the right and 2 units down

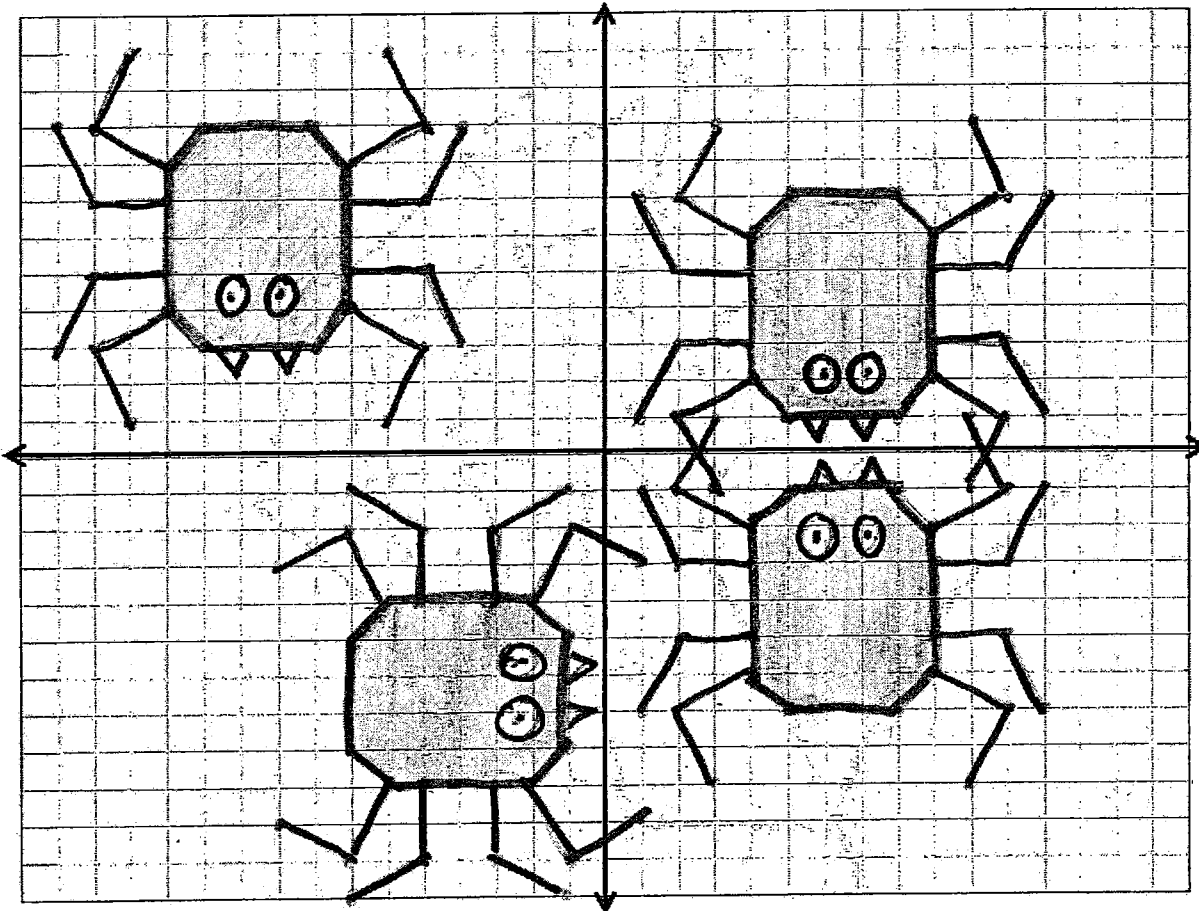
SPIDER #3:

Reflect Spider #2 across the x-axis

SPIDER #4:

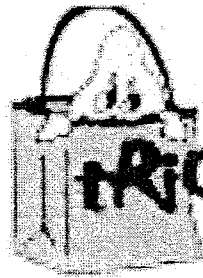
Rotate Spider #3 90° clockwise about the origin

SPIDER #1



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OR TRICK TRANSFORM

Plot (-5, 0)

$T_{x=5}$

$T_{x=0}$

$T_{x=10}$

$T_{x=15}$

Plot (-13, 7)

$T_{x=0}$

$T_{x=7}$

$T_{x=14}$

$T_{x=21}$

$T_{x=28}$

$T_{x=35}$

$T_{x=42}$

$T_{x=49}$

$T_{x=56}$

$T_{x=63}$

$T_{x=70}$

$T_{x=77}$

Plot (-5, 0)

$T_{x=5}$

$T_{x=0}$

$T_{x=10}$

$T_{x=15}$

$T_{x=20}$

$T_{x=25}$

$T_{x=30}$

$T_{x=35}$

$T_{x=40}$

Plot (9, -1)

$T_{x=0}$

$T_{x=18}$

Plot (7, -1)

$T_{x=0}$

Reflect the entire
image about the
line $x=1$

Plot (-11, 2)

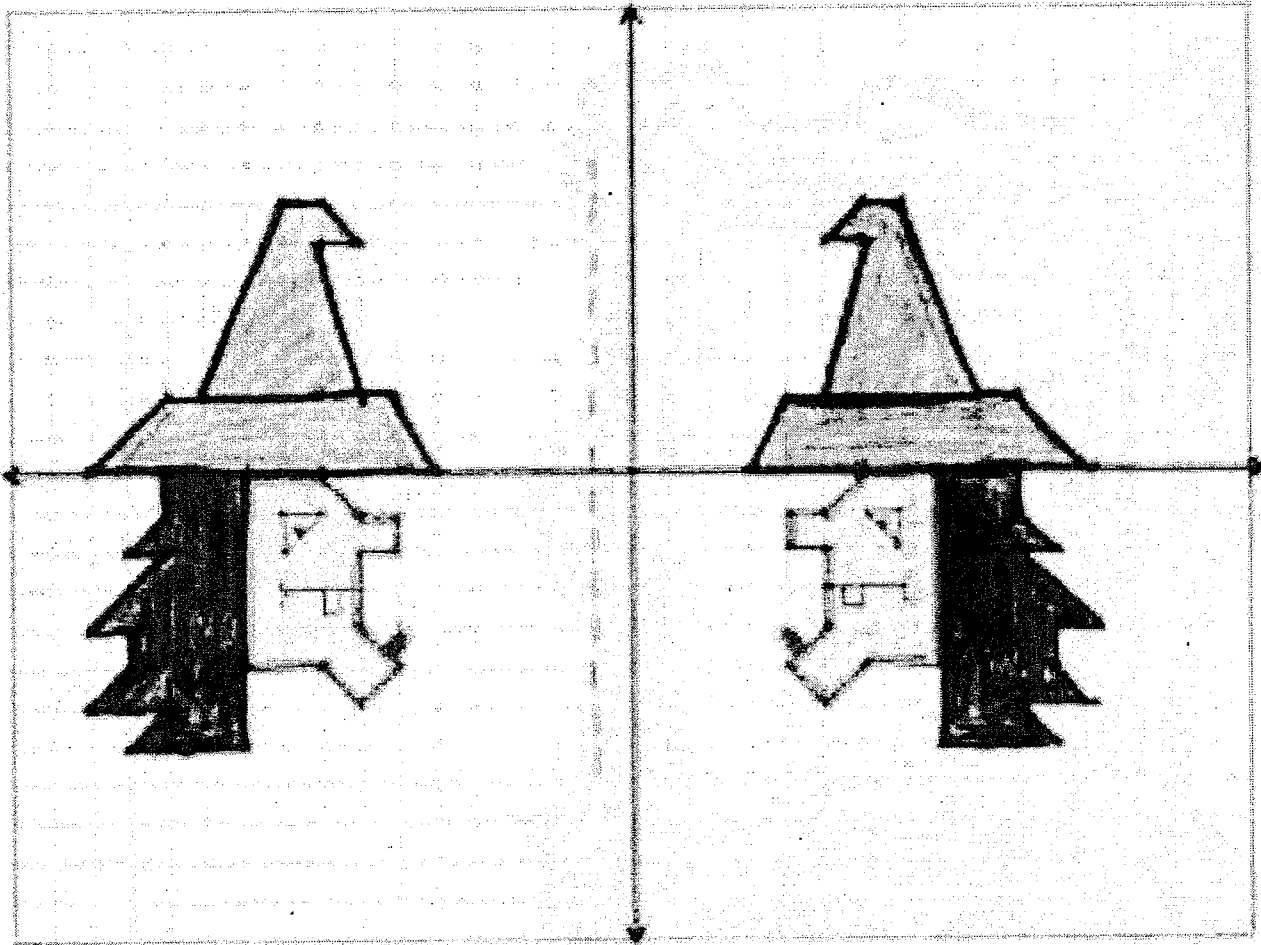
$T_{x=0}$

$T_{x=22}$

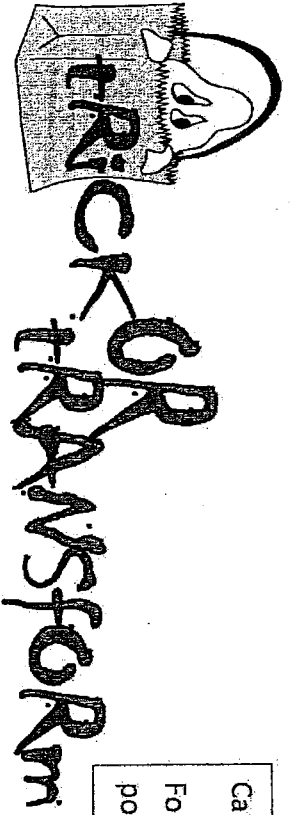
$T_{x=44}$

$T_{x=66}$

$T_{x=88}$

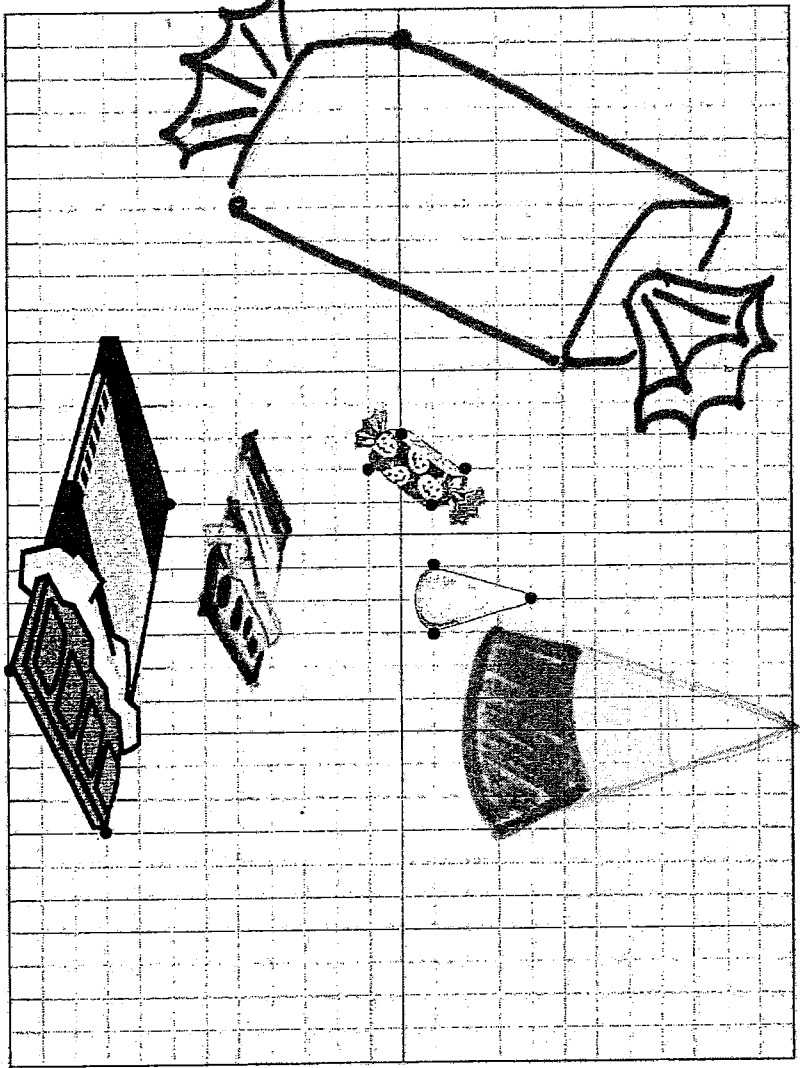


ANSWER KEY



TRICK OR TREATS FOR Rm

Carlos hit the jackpot when he went trick-or-treating this year! For each piece of candy find the coordinates for the marked points and perform the indicated dilation:




Name _____

Candy Corn

Dilate from the origin with $r=3$


Original	$(1, 1)$	$(3, 3)$
	$(3, 1)$	$(9, 3)$
	$(2, 4)$	$(6, 12)$



Chocolate Bar

Dilate from the origin with $r=1/2$


Original	$(-1, -1)$	$(-5, -3.5)$
	$(-6, -9)$	$(-3, -4.5)$
	$(4, -12)$	$(2, -6)$
	$(9, -9)$	$(4.5, -4.5)$



Halloween Taffy

Dilate from the origin with $r=5$

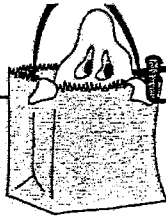
Original	$(-1, 1)$	$(-5, 5)$
	$(-2, 2)$	$(-10, 10)$
	$(-3, 0)$	$(-15, 0)$
	$(-2, -1)$	$(-10, -5)$



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FIGURE 1:

Plot (-3,2)

$T_{\langle-1,3\rangle}$

$T_{\langle 0,4\rangle}$

$T_{\langle-1,2\rangle}$

$T_{\langle-2,0\rangle}$

$T_{\langle-2,-2\rangle}$

$T_{\langle 0,4\rangle}$

$T_{\langle-2,-2\rangle}$

$T_{\langle-2,0\rangle}$

$T_{\langle-1,2\rangle}$

$T_{\langle-1,2\rangle}$

$T_{\langle-1,2\rangle}$

$T_{\langle-3,-1\rangle}$

Plot (-5,7)

$T_{\langle-1,0\rangle}$

$T_{\langle 0,1\rangle}$

$T_{\langle-1,1\rangle}$

Plot (-7,7)

$T_{\langle 0,1\rangle}$

$T_{\langle-1,-1\rangle}$

$T_{\langle-1,0\rangle}$

Plot (-5,5)

$T_{\langle 0,2\rangle}$

$T_{\langle-1,0\rangle}$

$T_{\langle 0,-1\rangle}$

$T_{\langle-1,0\rangle}$

FIGURE 2:

Rotate Figure 1 90° clockwise

FIGURE 3:

Rotate Figure 2 180° clockwise

FIGURE 4:

Rotate Figure 3 90° counterclockwise

Original	1 st Rot	2 nd Rot	3 rd Rot
(-3,2)	(2,3)	(-2,-3)	(3,-2)
(-4,5)	(5,4)	(-5,-4)	(4,-5)
(-4,9)	(9,4)	(-9,-4)	(4,-9)
(-5,10)	(10,5)	(-10,-5)	(5,-10)
(-7,10)	(10,7)	(-10,-7)	(7,-10)
(-9,8)	(8,9)	(-8,-9)	(9,-8)
(-9,4)	(4,9)	(-4,-9)	(9,-4)
(-11,2)	(2,11)	(-2,-11)	(11,-2)
(-9,2)	(2,9)	(-2,-9)	(9,-2)
(-8,3)	(3,8)	(-3,-8)	(8,-3)
(-7,2)	(2,7)	(-2,-7)	(7,-2)
(-6,3)	(3,6)	(-3,-6)	(6,-3)

