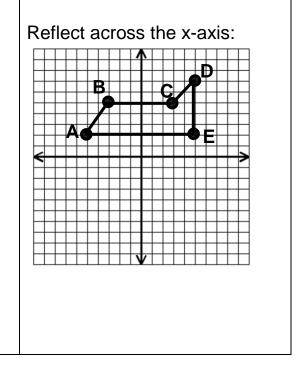
REFLECTIONS & SYMMETRY

Tell how many lines of symmetry each of the following objects has.

ren now many mies of symmetry each of the following objects has.		
1		
2	* Figure is a regular pentagon.	
3		

DRAW the reflection of each of the following figures across the axis/line indicated list the new coordinates, and find the object indicated.

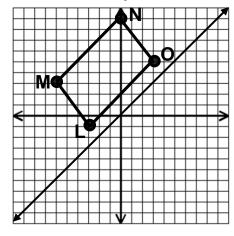
4.	A'(,)	D'(,	_)
	B'(,)	E'(,	_)
	C'(,))	



5. L'(____, ___) N'(____, ___)

M'(____, ____) O'(_____, ____)

Reflect across y = x:

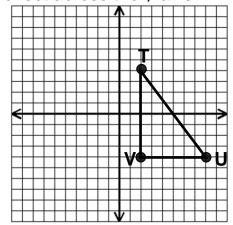


6. T'(_____, ____)

U'(_____, ____)

V'(_____)

Reflect across the y-axis:



7. _____

Which point is the reflection of (-3, -2) over the origin?

- A. (-3, -2)
 - B. (3, -2)
 - C. (-3, 2)
 - D. (3, 2)

	Which point is the reflection of (-3, -2) over the y-axis?
8	A (O O)
	A. (-3, -2)
	B. (3, -2)
	C. (-3, 2)
	D. (3, 2)
	Which point is the reflection of (-4, -3) over the x-axis?
9	
	A. (-4, -3)
	B. (4, -3)
	C. (-4, 3)
	D. (4, 3)
10	Gail is using a coordinate plane to plan a garden. She draws a flower bed with vertices (3,1), (3,4), (-2,4), and (-2,1). Then she creates a second flower bed by reflecting the first one across
	the x-axis. Which of these is a vertex of the second flower bed?
	A. (-2,-4)
	B. (-3,1)
	C. (2,1)
	D. (-3,-4)
	\\(\text{\(\text{\\ \exitin\) \} \} \end{\(\text{\(\text{\) \} \etx{\(\text{\(\text{\) \} \etx{\(\text{\(\text{\) \etx{\(\text{\(\text{\) \etx{\(\text{\(\text{\) \} \etx{\} \e
11	When point B (- 5 ,2) is reflected in the line $x = 2$, where is the image located?
	When point D (E O) is well asked in the line O where is the
12	When point B (- 5, 2) is reflected in the line $y = -2$, where is the image located?

Review.

13	Find BC and AC. B 12 A 30° C
14	\triangle ABC is a right triangle. m \angle A = 20°, m \angle B = 90°, AC = 8, and AB = 3. Which expression could be used to find BC?
	A. $\frac{3}{\tan 70^{\circ}}$ B. $\frac{8}{\sin 20^{\circ}}$ C. 8 tan 20° D. 3 cos 70°
15.	A building casts a shadow that is 85 ft. long when the angle of elevation to the sun is 34°. What is the height of the building to the nearest inch?
16	What is the angle of elevation to the sun when the shadow of the building in #15 is 42 ft. 6 in. long? Round to the nearest degree.
17	A triangle has side lengths 7, 12, and 13. Classify the triangle by angles.