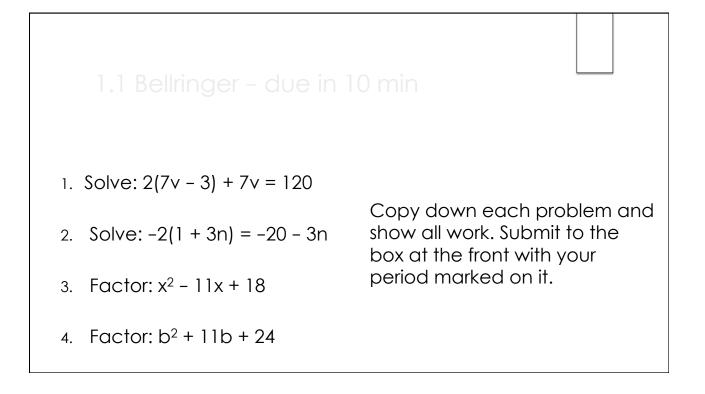
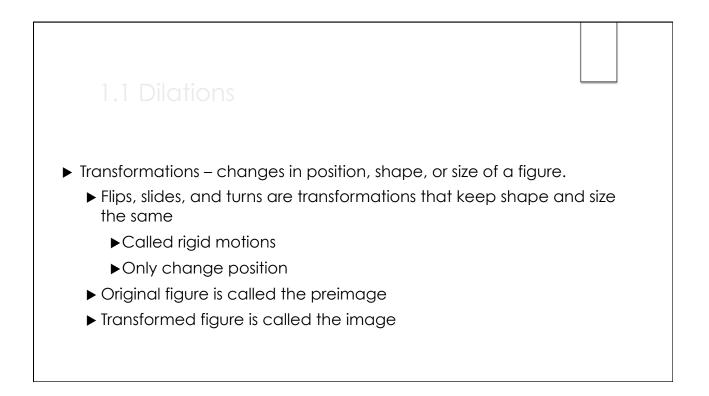
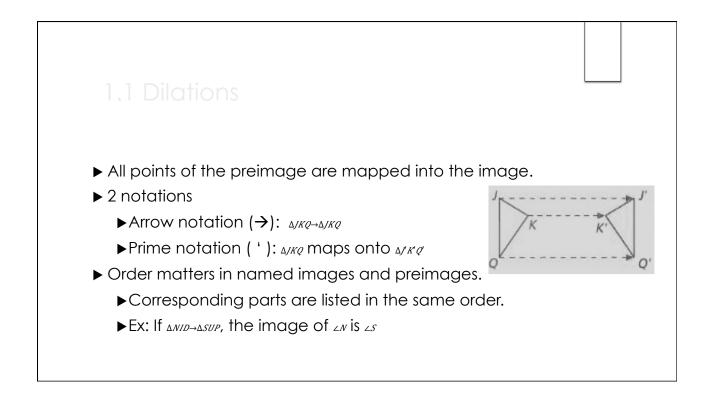
## Unit 1 - Transformations

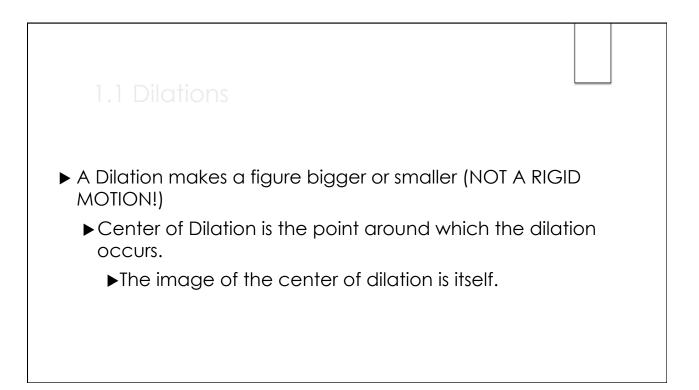
M1 CH 8.1-4, M2 CH 6.6

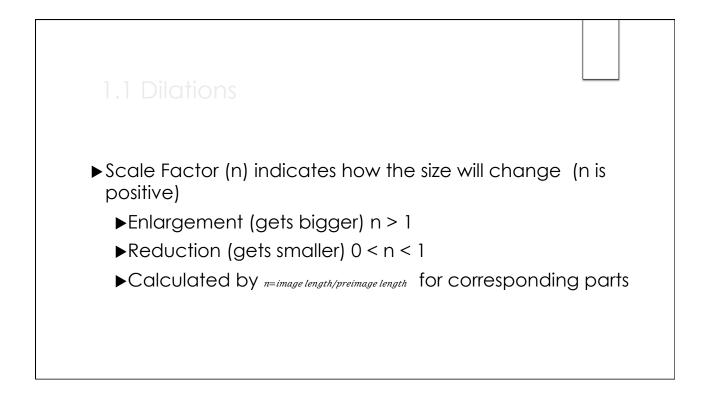


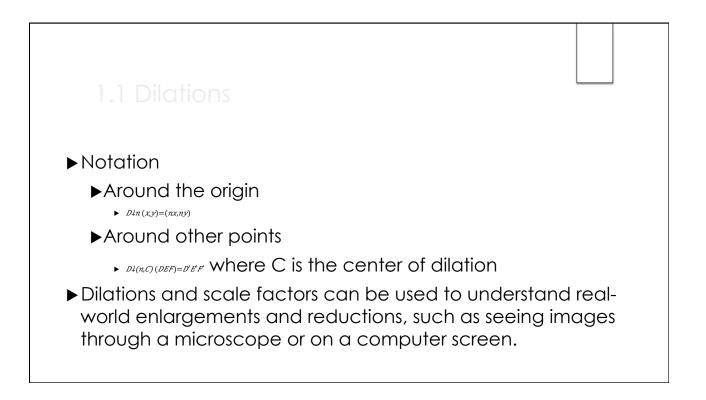
	1.1 Dilations Objective and Vocabulary						
be	<ul> <li>Obj.: I will be able to identify and write rules for dilations. I will be able to dilate a shape about a given point.</li> <li>Vocabulary</li> </ul>						
0	Dilation	• Center of Dilation	<ul> <li>Scale Factors</li> </ul>				
0	Enlargement	• Reductions	o Transformation				
0	Translation	<ul> <li>Preimage</li> </ul>	o Image				



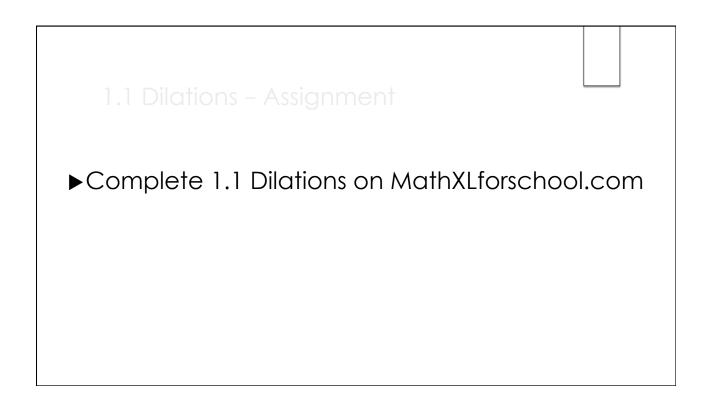


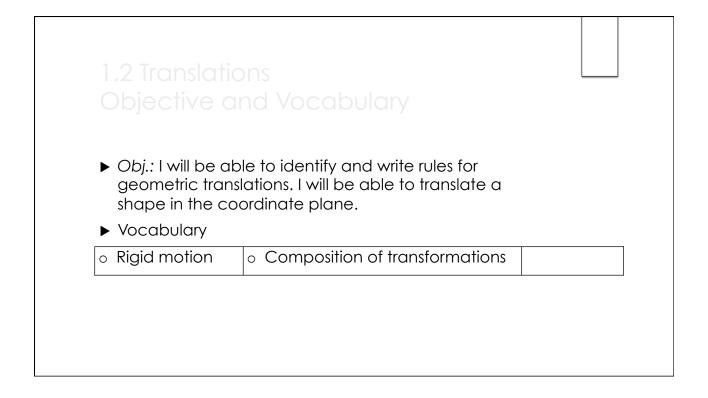


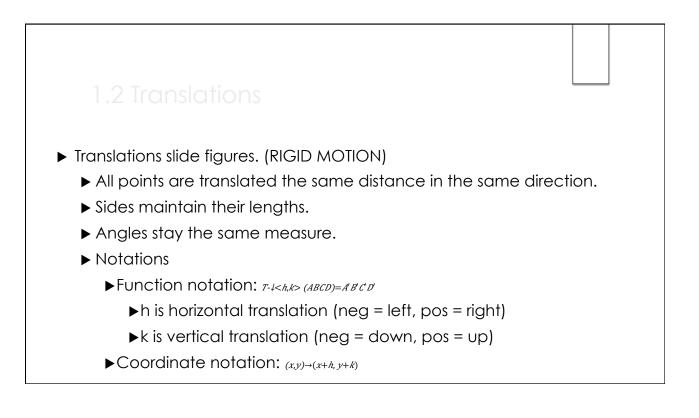


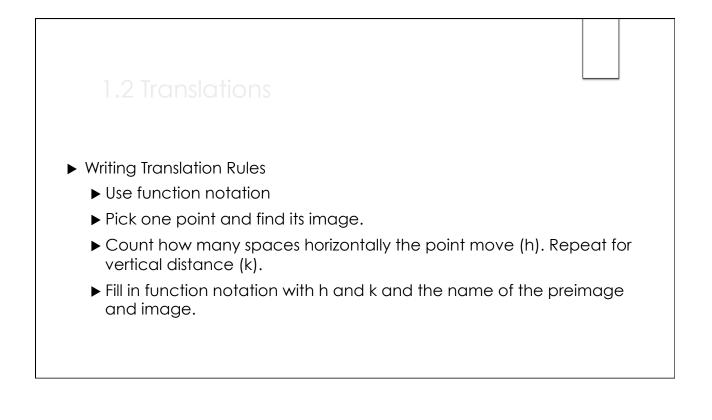


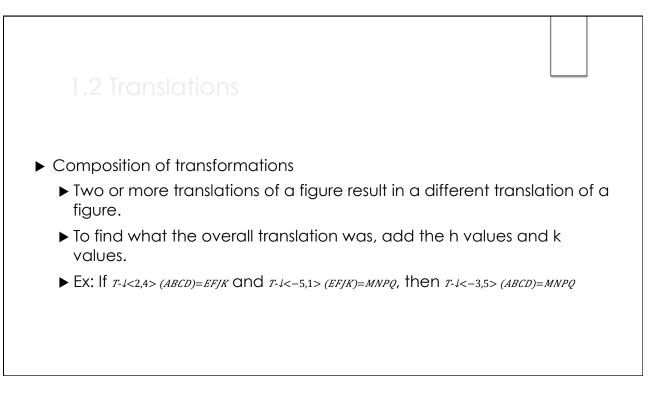
In each diagram, the dashed-line figure is an image	ions – Prac		
point from the preimage and name its image. (b) L		angle of	
1.		You look at each object described in Exercion of each object.	cises 7–8 under a magnifying glass. Find the actual dimension
		<ol><li>The image of a ribbon is 10 times the</li></ol>	e ribbon's actual size and has a width of 1 cm.
The solid-line figure is a dilation of the dashed-line fi whether the dilation is an enlargement or a reductio			
3.		Adilation has center (0, 0). Find the ima	ge of each point for the given scale factor.
4 W		9. <u>X</u> (3, 4); <i>D</i> <sub>7</sub> (X)	
5		11. <u>M(2, 2);</u> D <sub>5</sub> (M)	

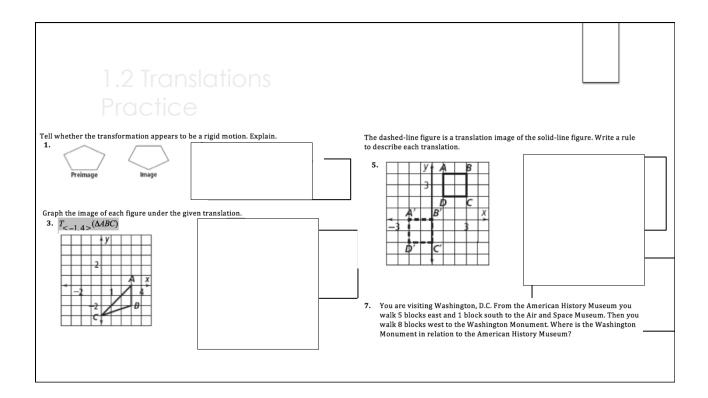




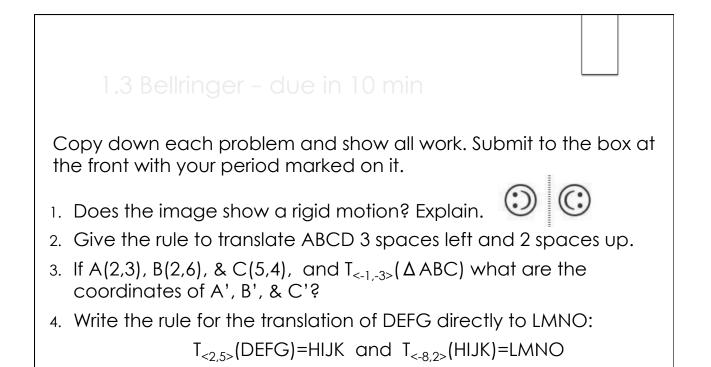




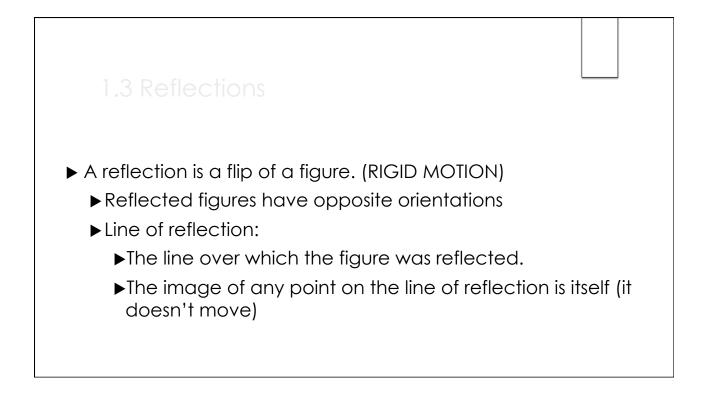


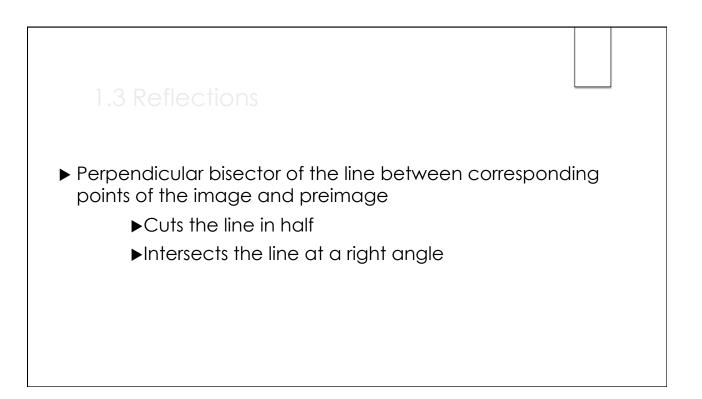


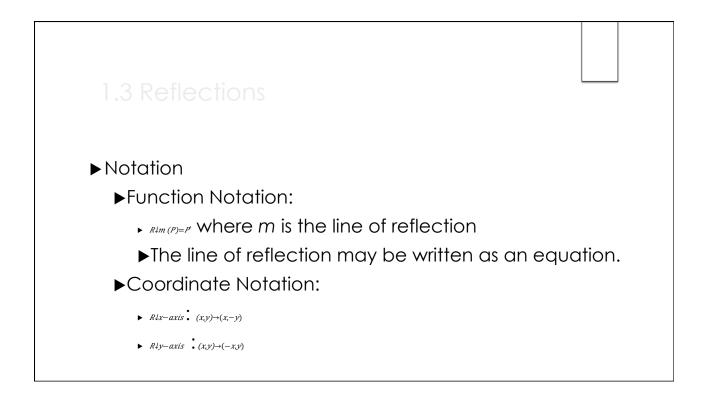


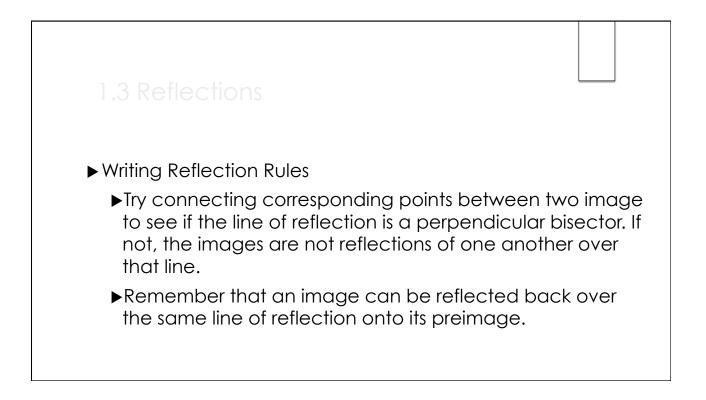


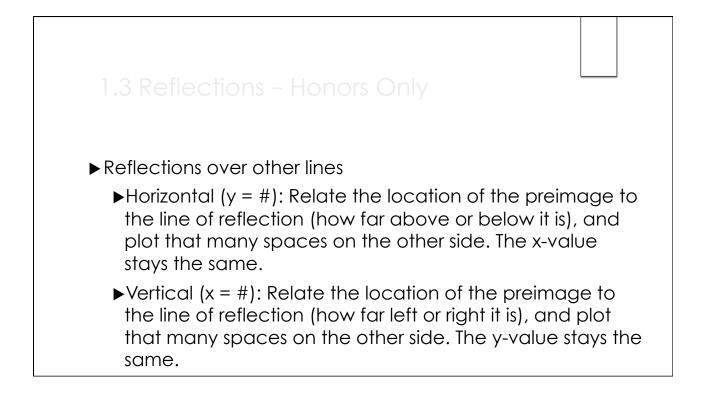
1.3 Reflec Objective	ctions e and Vocabuld	ary					
•	<i>Obj.:</i> I will be able to identify and write rules for reflections. I will be able to reflect a shape across a given line. Vocabulary						
• Reflection	○ Line of Reflection	• Perpendicular Bisector					

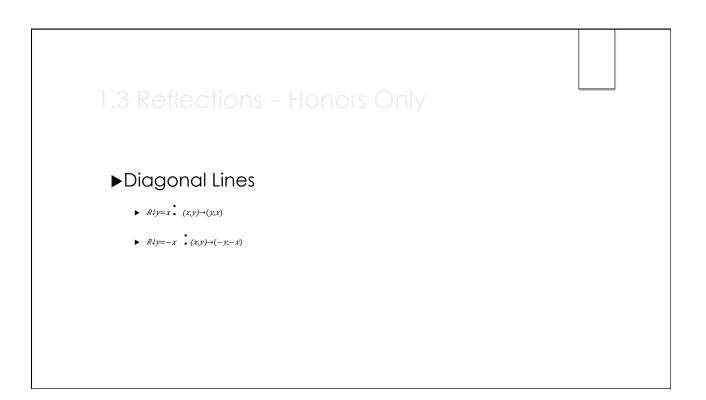


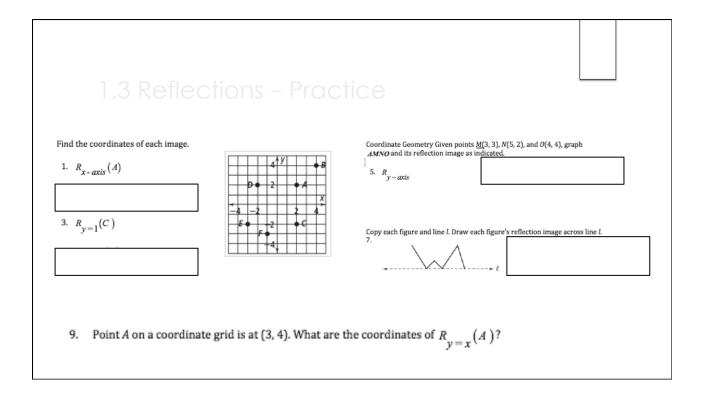




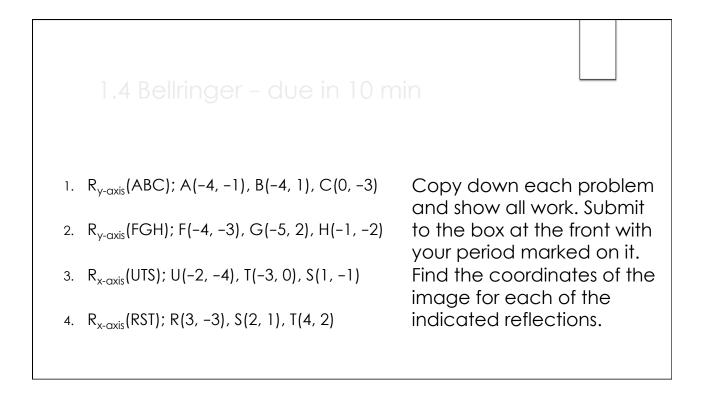




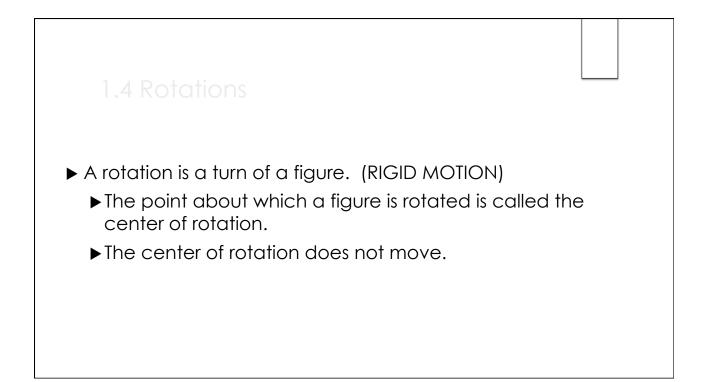


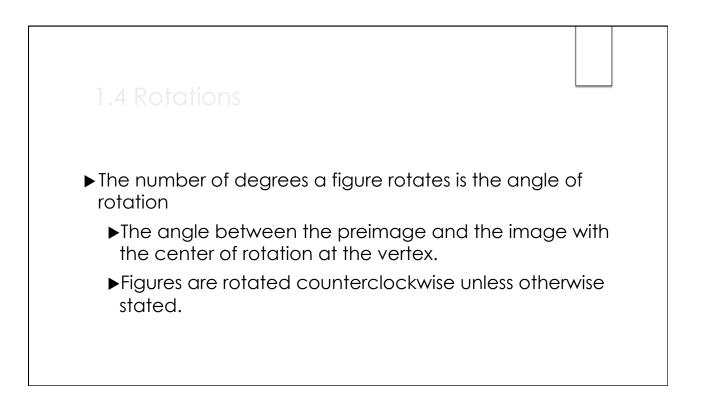


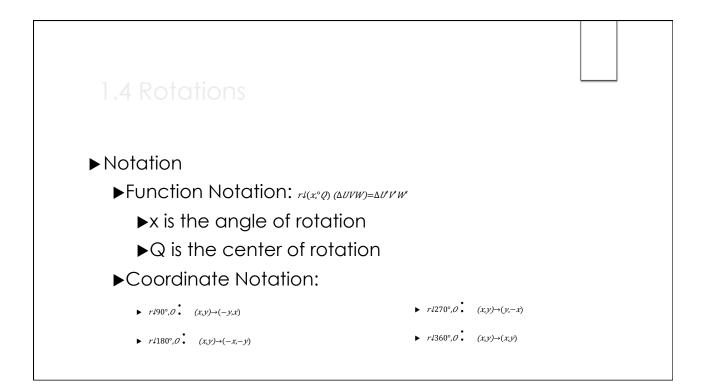


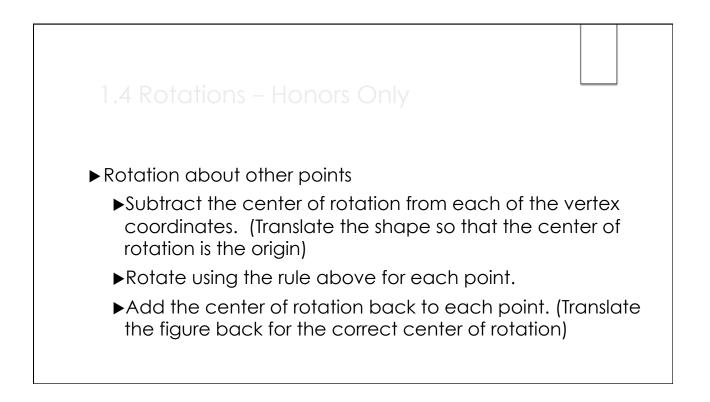


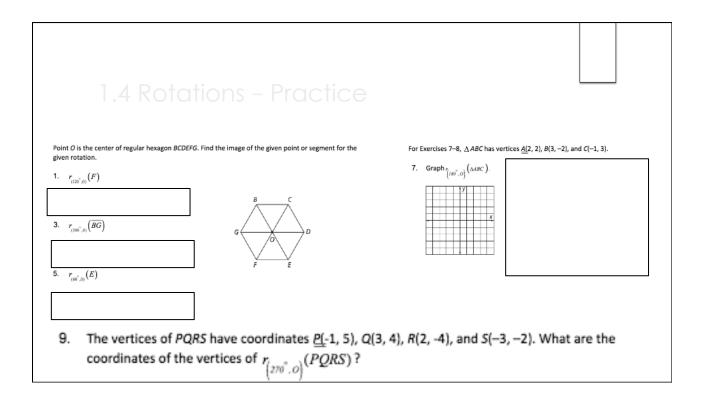
<ul> <li>Obj.: I will be able to be able to rotate c</li> <li>Vocabulary</li> </ul>	,			tations	
<ul> <li>Vocabulary</li> </ul>		i a given p	ooint.		I VVIII
o Rotation o Cer	nter of Rotation	• Angle o	of Rotatio	on	



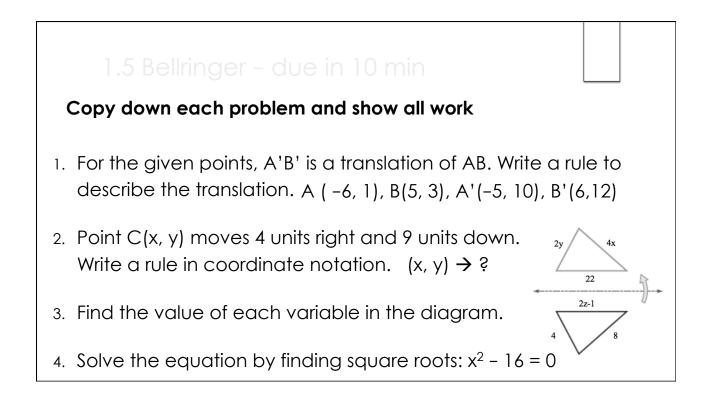




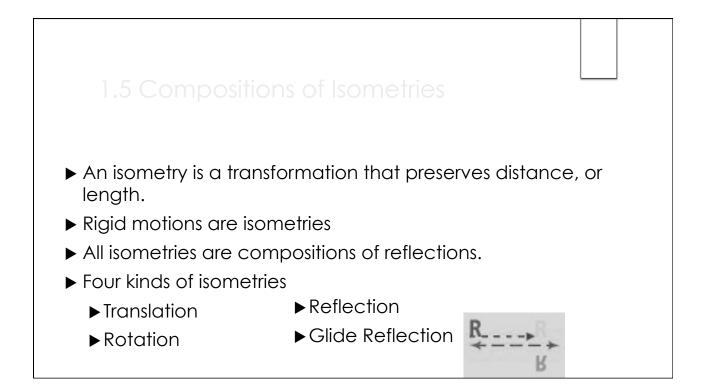


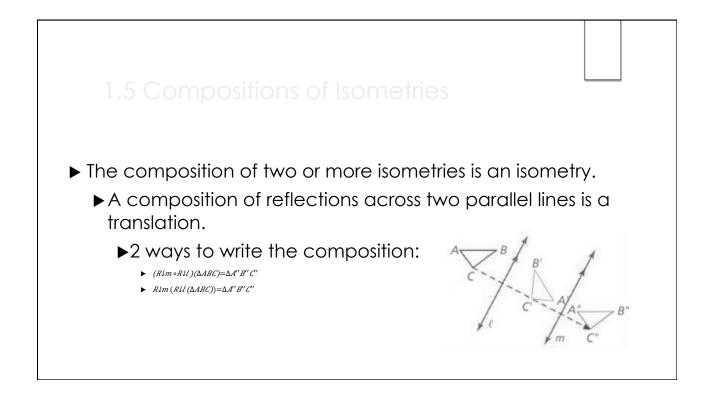


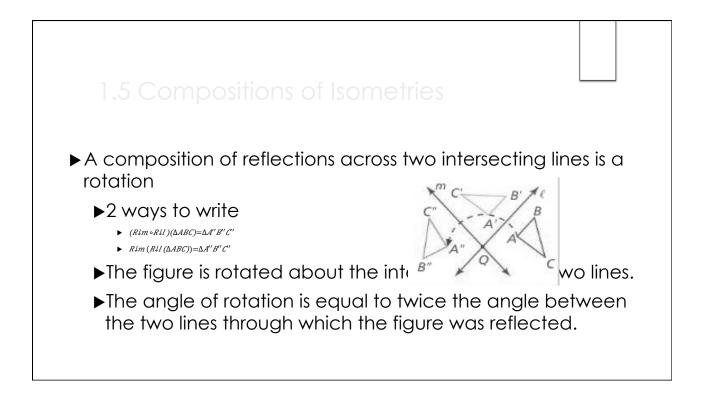


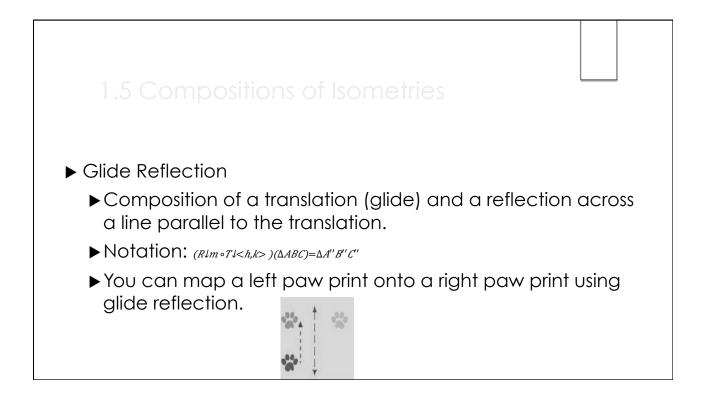


1.5 Composition Objective and		es
	ify the individual is	erform a composition sometries. I will be abl re.
Vocabulary		
o Glide Reflection	o Isometry	
1		









20

Practic		Isometries	
	rmation $\mathbb{R}_m \circ \mathbb{R}_p$ . Is the resulting transformation a scribe the distance and direction. For a rotation, to		d are perpendicular. If a point Q is reflected across / and then
1. $X$ $\ell$ $m$		across <i>m</i> , what transformation rule	describes this composition?
Graph $\Delta DML$ and its glide reflection image.			reflection first across $I_1$ and then across $I_2$ . Is the resulting on? For a translation, describe the direction and distance. For a the apple of rotation
3. $(R_{\gamma \text{ ratis}} \circ T_{<3,0:})(\Delta DML)$		7. <u>A</u> (-3, 4), B(-1, 0); <i>l</i> <sub>1</sub> : x - axis; <i>l</i> <sub>2</sub> : y - axis	

