

Math 2

Module A - Part 1
Review

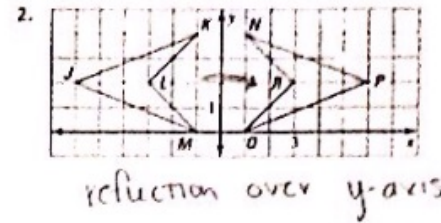
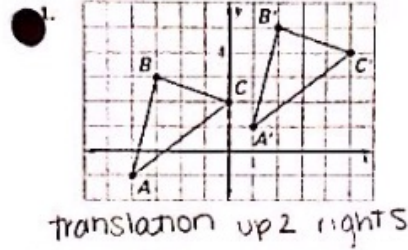
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Math II - Test Review - Parallel Lines and Transformations

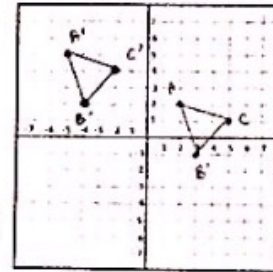
Name: Krey

Name and describe the transformation.

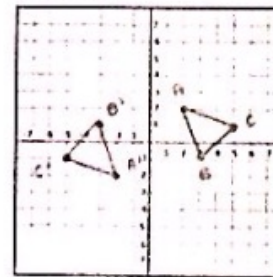


Perform the given transformation.

3. Plot A(2, 2) B(3, -1) C(5, 1)
Translate $(x, y) \rightarrow (x-7, y+3)$

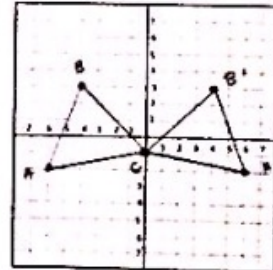


4. Plot A(2, 2) B(3, -1) C(5, 1)
Rotate 180°



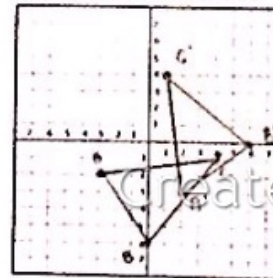
$(-x, -y)$
 $(-2, -2)$
 $(-3, 1)$
 $(-5, -1)$

5. Plot A(-6, -2) B(-4, 3) C(0, -1)
Reflect across the y-axis



$(-x, y)$
 $(6, -2)$
 $(4, 3)$
 $(0, -1)$

6. Plot A(-3, -2) B(0, -6) C(4, -1)
Rotate 90° counter clockwise




$(-y, x)$
 $(2, -3)$
 $(6, 0)$
 $(1, 4)$

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7. The coordinates of Point A are $(-4, 2)$. Perform each transformation and write the coordinates for A'

	Reflect A in the line $y=x$ (y, x)	Reflect A in the line $y=-x$ $(-y, -x)$	Reflect A in the line $y=1$	Reflect A in the line $x=2$	Rotate A 90° CW About Origin	Rotate A 90° CCW About origin
	$(2, -4)$	$(-2, 4)$	$(-4, 0)$	$(2, 2)$	$(2, 4)$	$(-2, -4)$
					$(y, -x)$	$(-y, x)$

Rotate A 180° About Origin	Reflect A across the x-axis	Reflect A across the y-axis	Translate $(x+3, y-2)$	Translate $(x-4, y-5)$	Rotate A 180° about the origin then translate $(x-2, y+2)$
$(4, -2)$	$(-4, -2)$	$(4, 2)$	$(-1, 0)$	$(-8, -3)$	$(2, 0)$
$(-x, -y)$	$(x, -y)$	$(-x, y)$			$(-x, -y)$

Sketch the image after the described transformations.

B. Translation: $(x, y) \rightarrow (x-5, y-6)$

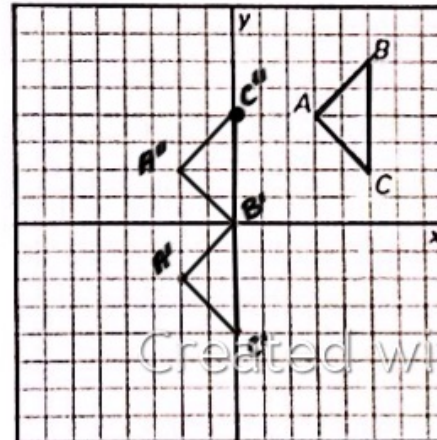
Reflection: in the x-axis
left 5
down 6

Name the coordinates of the following:

$A' (-2, 2)$

$B' (0, 0)$

$C' (0, 4)$



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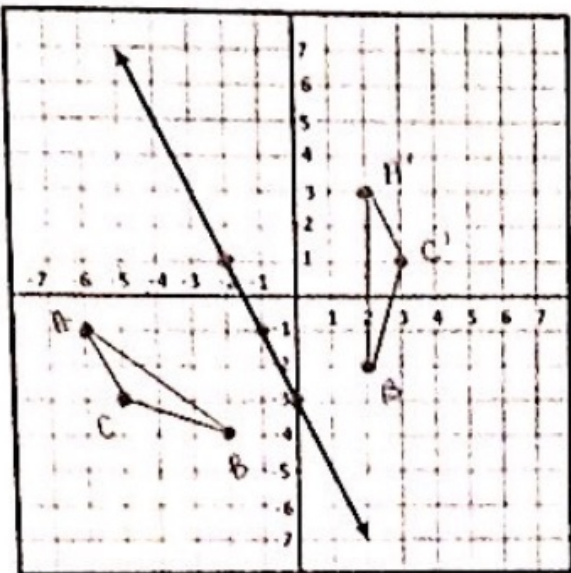
Challenge Yourself

9. Plot A (-6, -1), B (-2, -4), C (-5, -3)
 Reflect in the line $y = -2x - 3$



$m = -2 \perp \frac{1}{2}$

A' B' C'

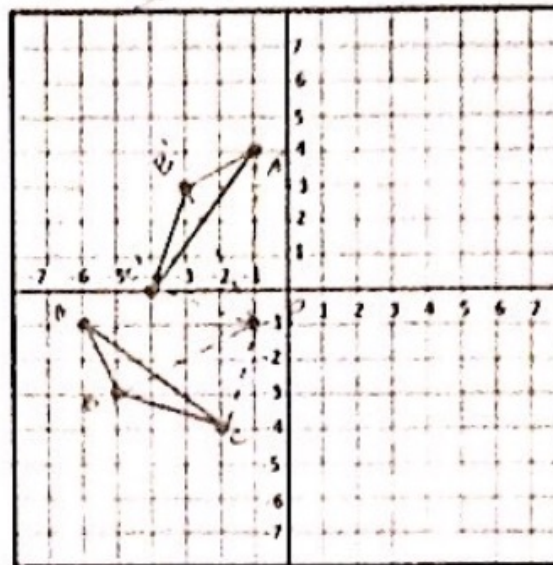


verifying Transformations

10. Plot A (-6, -1), B (-2, -4), C (-5, -3)
 90° cw about (-1, -1)

need ⊥ Slopes!

A' B' C'



$m_{\overline{BP}} = \frac{2}{4} \perp -\frac{4}{2}$

$m_{\overline{CP}} = \frac{3}{3} \perp -\frac{3}{3}$

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Parallel Lines and Angle Relationships

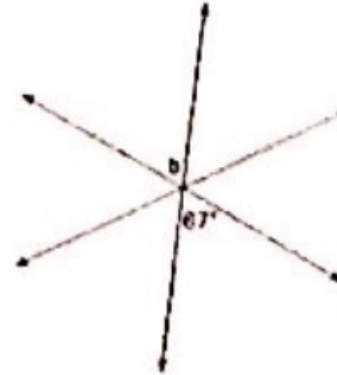
Name the type of angles marked below and find the measure of the missing angle.

1)



linear pair
44°

2)

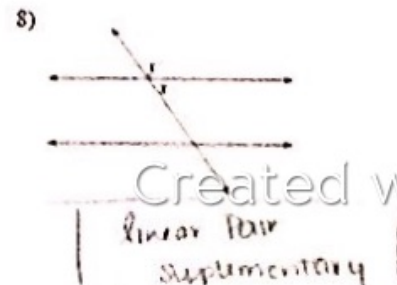
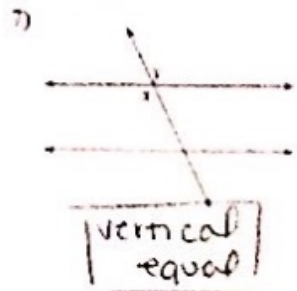
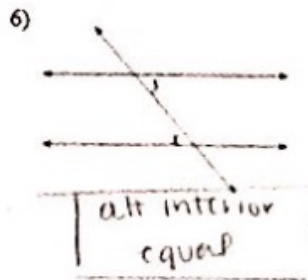
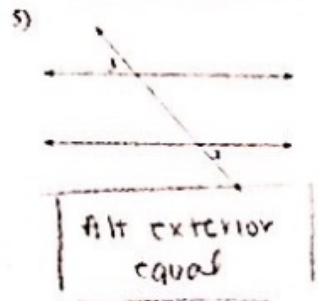
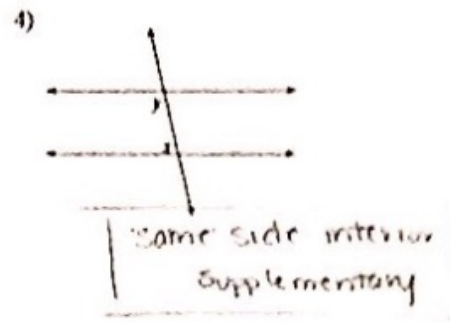
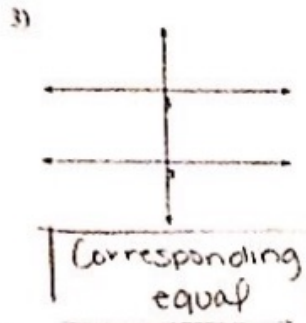


vertical \angle
67°

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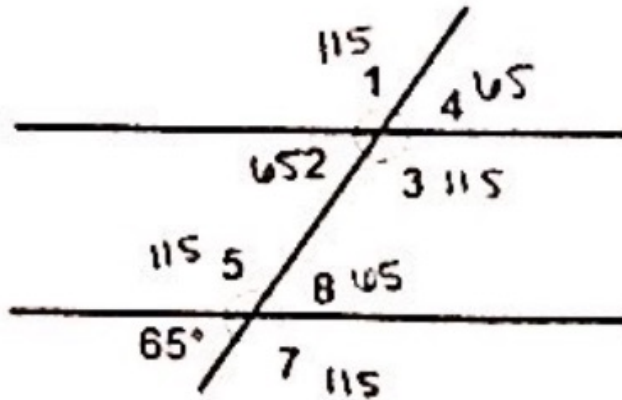
For each problems below, name the type of angles marked by x and y (same side exterior, alternate interior, corresponding, etc) and explain how their angle measures are related (equal or supplementary).



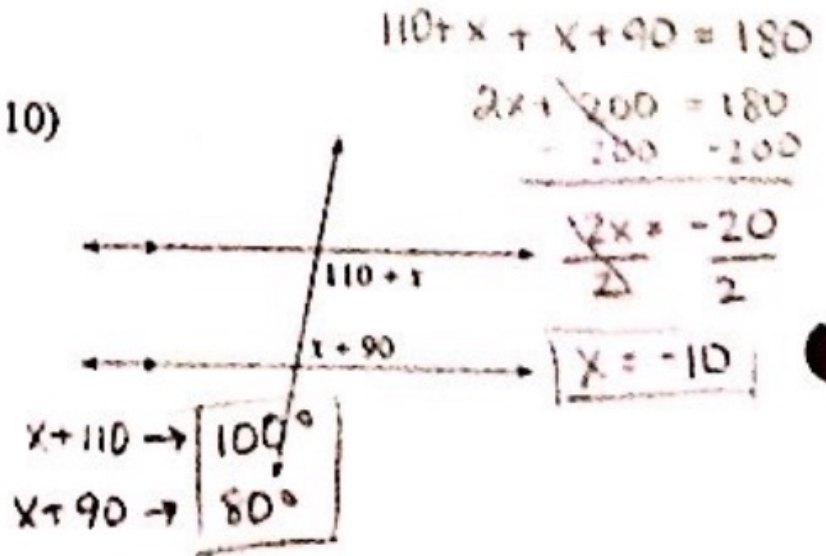
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Use the information shown below and what you know about angle relationships to find all of the missing angle measures.



10)



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