Part A: Transformations [G-CO.5]

- SBAC Practice Name Date Period

 Transformations [G-CO.5]

 Select the type of transformation described by $(x,y) \rightarrow (x-2,y-5)$.
 - A) a translation two units down and five units left.
 - B) a translation two units right and five units down.
 - C) a dilation of scale 2 followed by a translation five units up.
 - D) a translation two units left and five units down.
- Select the description that matches the transformation described by $(x,y) \rightarrow (3x,3y-5)$. 2.
 - A) a translation three units left followed by a translation five units down.
 - B) a dilation of scale factor three followed by a translation five units down.
 - C) a translation three units right followed by a translation five units down.
 - D) a dilation of scale factor five followed by a translation three units down.
- Select the transformation notation describing a figure horizontally stretched by a factor of 2 and 3. translated 5 units to the left.

B)
$$(x,y) \rightarrow (2x,2y-5)$$

C)
$$(x,y) \rightarrow (2x,-5)$$
?

D)
$$(x, y) \to (x-5, 2y)$$

common misonceptions:

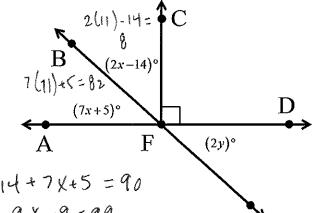
students often moattribute left or right/
up or down with x or y (or invert
the direction).

Part B: Lines & Angles [G-CO.9]

Determine the measure of the indicated angles.

A)
$$m\angle AFB = \frac{\partial 2^{\circ}}{\partial A}$$

B)
$$m \angle BFC = \frac{\Phi^{o}}{\Phi^{o}}$$



2.X-14+7X+5 = 90 9 x -9 = 99

Line m is parallel to line n.



$$m \angle 1 = (3x+64)^{\circ}$$

$$m \angle 7 = (10x-13)^{\circ}$$

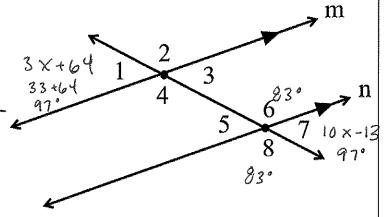
$$3 \times + 64 = 0 \times -13$$

$$3 \times + 64 = 0 \times -13$$

$$3 \times + 64 = 0 \times -13$$
Find...

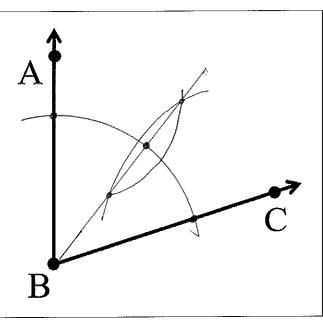
	_			+13		+13
A) $m \angle 7 =$	97	0	4	77	-	7K
,				-7		-7

B) $m \angle 6 = 83^{\circ}$



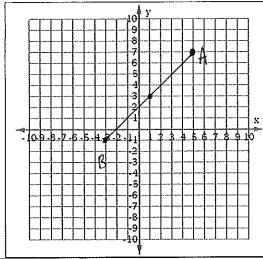
Part C: Constructions [G-CO.12]

Use a straight edge and compass to construct an angle bisector of $\angle ABC$.



Part D: Distance & Midpoint

Graph and determine both the distance and midpoint between points A(5, 7) and B(-3,-1). Show your work.



Distance:

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$A(5,7) \quad B(-3,-1)$$

$$x_1 y_1 \quad x_2 y_2$$

$$d = \sqrt{(-3-5)^2 + (-1-7)^2}$$

$$d = \sqrt{(-9)^2 + (-8)^2}$$

$$d = \sqrt{(-9)^2 + (-9)^2}$$

Distance:

$$d = \left[\frac{1}{x_2 - x_1} \right]^2 + \left(\frac{y_2 - y_1}{y_1} \right]^2 + \left(\frac{y_1 + y_2}{y_2} \right)^2 + \left(\frac{y_2 - y_1}{y_2} \right)^2 + \left(\frac{y_1 + y_2}{y_2} \right)^2 + \left(\frac{y_1 + y_2}$$

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