

File Home Insert Page Layout References Mailings Review View MathType

Calibri (Body) 11 A A Aa Font

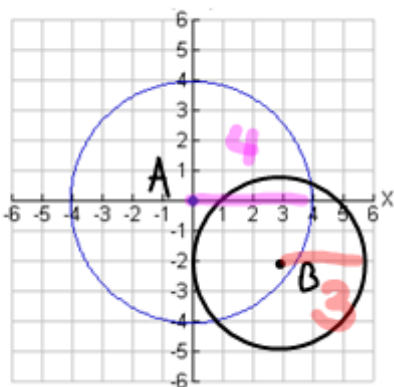
Paragraph

Styles

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Target 8A: Prove that all circles are similar by showing that for a dilation centered at the center of a circle, the preimage and the image have equal central angle measures

Problem 1: Describe the transformation from Circle A to Circle B.

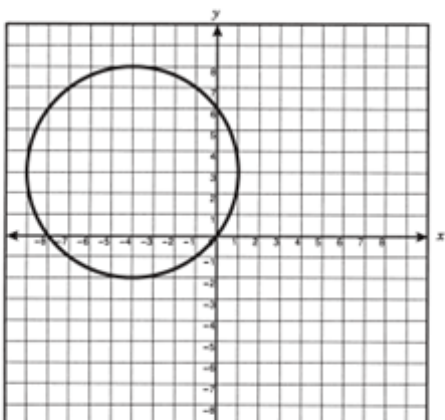


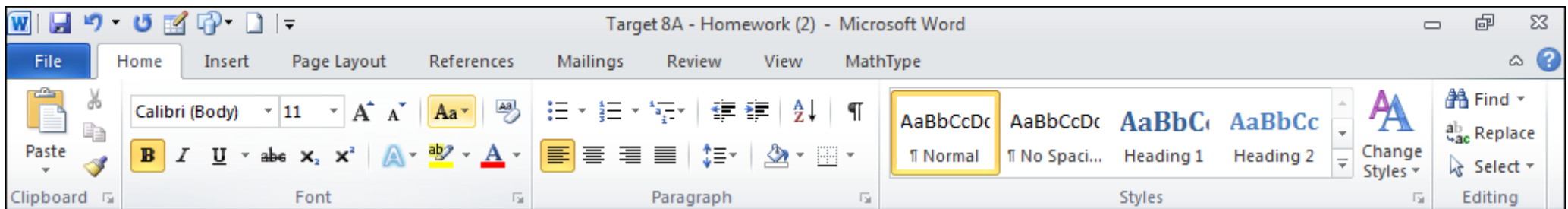
① Translate: 3 right, 4 down

② Dilate: (Reduce)
Scale factor: $\frac{3}{4}$

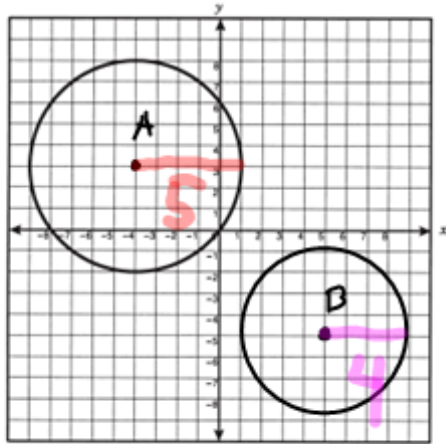
CHECK: $4 \cdot \frac{3}{4} = 3$

Problem 2: Describe the transformation from Circle A to Circle B.





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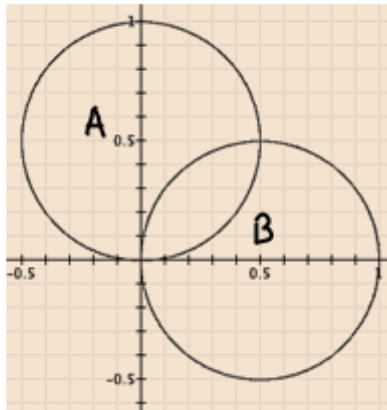
① Translate: 9 right, 8 down

② Dilate: (Reduce)

Scale factor: $\frac{4}{5}$

CHECK: $5 \cdot \frac{4}{5} = 4$

Problem 3: Describe the transformation from Circle A to Circle B.



① Translate: 0.5 right, 0.5 down

② No dilation: \odot s are \cong

Note: Scale factor = 1



Target 8A - Homework (2) - Microsoft Word

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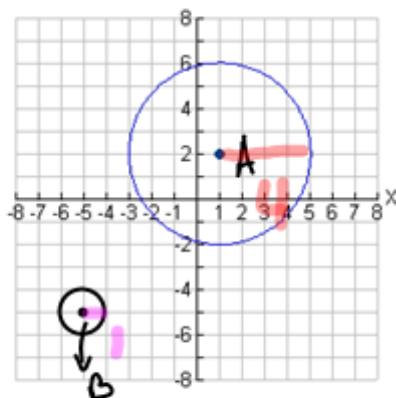
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Problem 4: Describe the transformation from Circle A to Circle B.



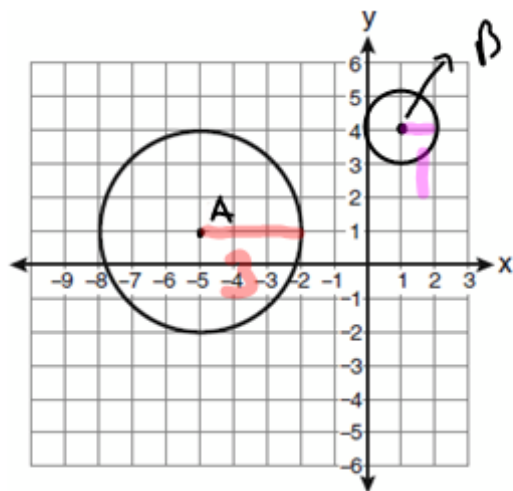
① Translate: 6 left, 7 down

② Dilate: (Reduce)

Scale factor: $\frac{1}{4}$

CHECK: $4 \cdot \frac{1}{4} = 1$

Problem 5: Describe the transformation from Circle A to Circle B.



① Translate: 6 right, 3 up

② Dilate: (Reduce)

Scale factor: $\frac{1}{3}$

CHECK: $3 \cdot \frac{1}{3} = 1$

Target 8A - Homework (2) - Microsoft Word

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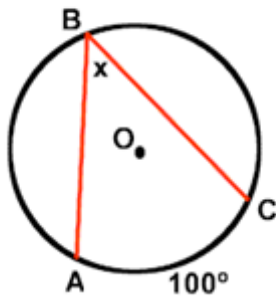
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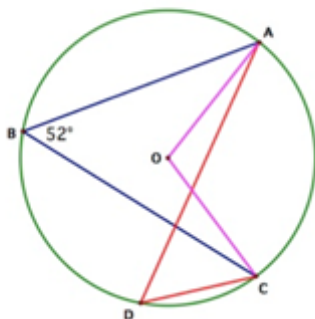
Problem 6: solve for x.



QN ○

$$x = \frac{1}{2}(100) = 50$$

Problem 7: Find the measure of arc AC.



$$52 = \frac{1}{2} \widehat{AC} \Rightarrow \widehat{AC} = 104^\circ$$



Circle: Practice Naming The Circle's Components

Draw lines to complete the circle using the labels to the right. Use red for radius and blue for the diameter.