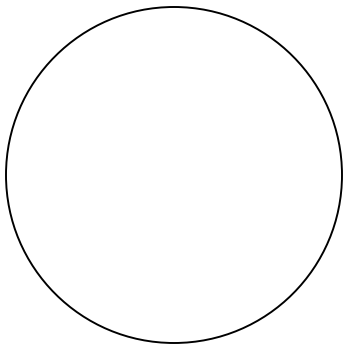
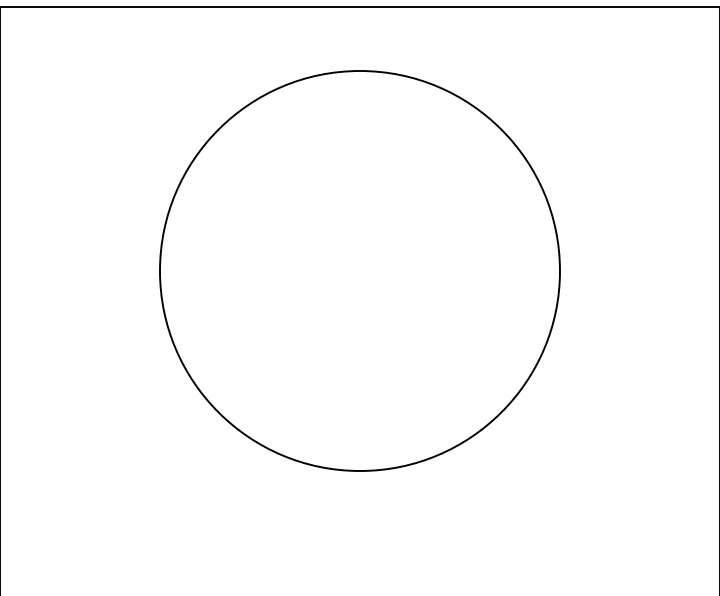
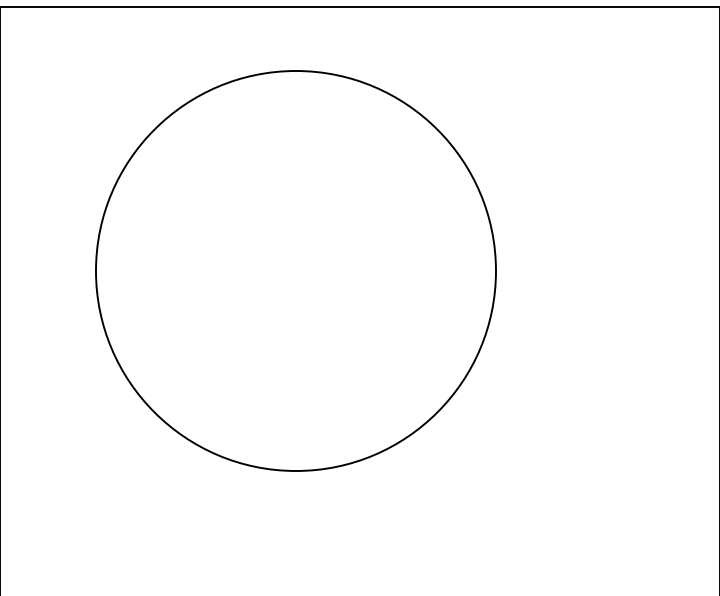


Theorem 9-8: _____



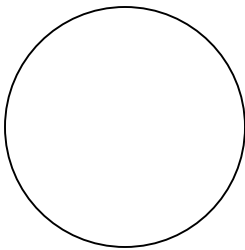
Ex: _____

Examples



Theorem 9-10 Angles outside of circles and their relationships to intercepted arcs.

Case 1 _____



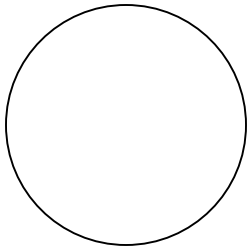
Ex: If $m\widehat{FC} = 120$, find $m\angle FBC$.

If $m\widehat{FC} = 120$, then $m\widehat{FDC} =$

$m\angle FBC =$

$m\angle = \frac{1}{2} (\text{Bigger Arc} - \text{Smaller Arc})$

Case 2 _____

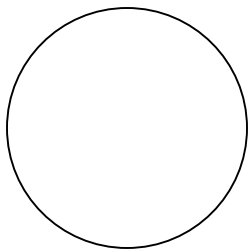


Ex: If $m\widehat{FC} = 80$, and $m\widehat{HG} = 150$ find $m\angle FBC$.

$m\angle FBC =$ _____

$m\angle = \frac{1}{2} (\text{Bigger Arc} - \text{Smaller Arc})$

Case 3 _____

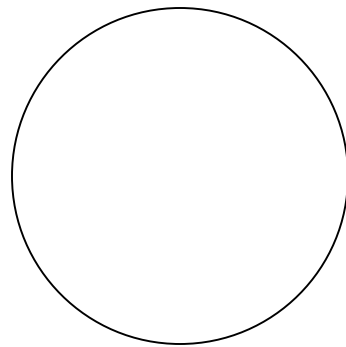
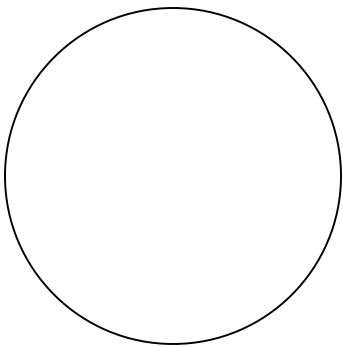


Ex: If $m\widehat{FC} = 80$, and $m\widehat{FHG} = 160$ find $m\angle FBC$.

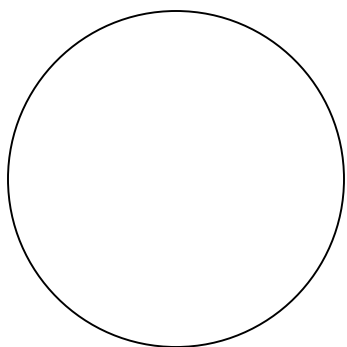
$m\angle FBC =$ _____

$m\angle = \frac{1}{2} (\text{Bigger Arc} - \text{Smaller Arc})$

Examples:



Theorem 9-9: _____



$$m\angle = \frac{1}{2} (\text{Bigger Arc} + \text{Smaller Arc})$$

Example: If $mQA = 50$, $mKH = 70$,
then $m\angle QTA = \underline{\hspace{2cm}}$

Examples:

