## Algebra 2 Unit: Geometry Section: Geometry of Circles

## **Review Worksheet Key**

1) In circle C, arc AB measures 34 degrees. Angle ACB measures (3x + 7) degrees. Find the value of x.





2) In circle C, arc ADB measures 133 degrees. Angle ACB measures 5x - 7 degrees. Find the value of x.



3) Angle ACB measures 3x + 1 degrees and arc AB measures 7x - 5 degrees. Find the value of x.



4) Find the measure of angle Y.



3x - 4 = 2x + 6x = 10  $m \angle Y = (2(10) + 6)^{\circ}$  5) Find the value of x.



m∠BEC = 
$$\frac{1}{2}$$
 (mAD + mBC)  
110 =  $\frac{1}{2}$  (85 + x)  
220 = 85 + x  
x = 135

6) Find the  $\widehat{mDC}$  if  $\widehat{mBC}$  is equal to 27° and angle A measures 12°.

