## Geo Weekly Review: 5/4 to 5/7

## Friday, May 8, 2020

Find the measures of all angles of ABCD.

Round all decimals to the nearest hundredth unless noted otherwise. Figures are not drawn to scale.1. Find the value of *x*.2. Quadrilateral ABCD is inscribed in the circle.



- A 75° B 110°
  - 4. State the coordinates of the center and the length of the radius of this circle:  $(x + 7)^2 + (y - 1)^2 = 289$

3. Given  $m \angle D = 40^{\circ}$  and  $m\widehat{BAD} = 190^{\circ}$ Find  $m \angle A$  and  $m\widehat{CD}$ 



5. Given:  $\overline{RT}$  is tangent to the circle and  $\widehat{mRMQ} = 190^{\circ}$  find  $m \angle TRQ$ .



6. Find the value of *x*.



7. The center of a circle is (-2, 8) and the point (4, 3) is on the circle. Write the equation of this circle.

EQ:

12

9. Given  $\overline{AB}$  is tangent to the circle.

Find the value of *x*.

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11.  $\overline{AB}$  is a diameter of a circle. The endpoints of  $\overline{AB}$  are (9,-1) & (1,11). Write the equation of this circle.

EQ:

8. Find the value of *x*.



10. Given:  $\widehat{mED} = 105^{\circ}$ ,  $\widehat{mBC} = 60^{\circ}$ , and  $\widehat{mEC} = 145^{\circ}$ , find the  $m \angle A$ .



12. Given:  $\overline{AB}$  is a diameter and  $m \angle CBA = 72^{\circ}$ . Find  $\widehat{mBC}$ .

