Answers for Grade 10 Group Assignments - Quarter #2

Notes:

- Answers for group assignment problems that are out of the workbook can be found in the file titled "G10 Answers…".
- This answer key doesn't include all answers.

Week 9

For Tuesday

- *Triangle Exterior Angle Theorem.* The exterior angle is equal to the sum of the opposite two interior angles.
- *Outside Angle Theorem.*
  3) $\angle 1 = \angle C + \angle 2$
  4) $\angle 1 = \frac{1}{2}\angle A$ and $\angle 2 = \frac{1}{2}\angle B$
  5) subbing into from step #3 gives us $\frac{1}{2}\angle A = \angle C + \frac{1}{2}\angle B \rightarrow \angle C = \frac{1}{2}(\angle A - \angle B)$

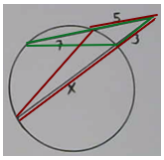
For Thursday

1) Equilateral 2) isosceles 3) Hmm… 4) Obtuse 5) Right
6) $X = Y$ 7) $C = A - 180°$ and $C = 180° - B$

Week 10

For Tuesday

- *Circumscribed Quadrilateral Theorem.*
  6) The sum of the lengths of opposites sides are equal.
  7) $x = 7$



- *Secant Segment Theorem.*
  4) The green and red triangles (on the right) are similar. Therefore,
  $(5+7) : 3 = (x+3) : 5 \rightarrow 5 \cdot 12 = 3(x+3) \rightarrow 60 = 3x + 9 \rightarrow \underline{x = 17}$

For Thursday

- *Secant Tangent Theorem.*
  3) $AE \cdot BE = CE^2$

Weeks 11-16

- No answers needed.