DE Geometry Review Quiz 2

Name _____

_____1. In $\triangle ABC$ $\angle A = 4x$, $\angle B = x + 60$, and $\angle C = 5x - 40$. Which side is the longest? [5-2]

   A. $\overline{AB}$ B. $\overline{BC}$ C. $\overline{AC}$ D. $\angle A$

_____2. A 6 foot man casts a 9 foot shadow. If a flagpole has a 117 foot shadow, [7-2]
   how tall is the flagpole?

   A. 75 feet   B. 76 feet   C. 77 feet   D. 78 feet

_____3. If the diagonal distance of a rectangle is 109 cm and one of the sides is 60 cm, [1-3]
   what is the other side length?

   A. 71 cm   B. 72 cm   C. 91 cm   D. 97 cm

_____4. There are 27 kids who play either soccer or baseball. 4 of the 27 kids play [2-4]
   both soccer and baseball. If the soccer team has 16 members, how many kids
   are on the baseball team?

   A. 11   B. 15   C. 16   D. 17

_____5. Which of the measurements below could be the measurements of a triangle? [5-1]

   A. 3, 4, 9   B. 2, 8, 10   C. 3, 7, 9   D. 6, 8, 16

_____6. In $\triangle ABC$, A = (2, 4), B = (7, 7) and C = (6, 3). What angle is largest? [5-2]

   A. $\angle A$ B. $\angle B$ C. $\angle C$ D. None of these

_____7. How many degrees is each individual angle on the inside of a regular pentagon? [6-1]

   A. 92°   B. 108°   C. 112°   D. 165°

_____8. If $\triangle ABC \cong \triangle HIM$, what must be true? [4-2]

   A. $\angle B = \angle H$ B. $\angle M = \angle C$ C. $\overline{AC} = \overline{IH}$ D. $\overline{BC} = \overline{MH}$

_____9. What of the following could be a fourth point in a parallelogram [6-2]
   if three of the points are (0, 0), (6, 0) and (3, 4)?

   A. (9, 4)   B. (6, 4)   C. (4, 6)   D. (4, 9)

_____10. Which statement is the converse of "dogs have four legs"? [2-1]
   A. If you are a dog, you have four legs.
   B. If you have four legs, you are a dog.
   C. If you don't have four legs, you are not a dog.
   D. None of the above.