Geometry Review Quiz 1-8 F

_____1.   Which equation would be perpendicular to the $y = -\frac{1}{7}x + 3$?

A. $y = -\frac{1}{7}x - 3$ B. $y = \frac{1}{7}x + 3$ C. $y = 7x - 5$ D. None of the above

_____2.   In $\triangle ABC$ $\angle A = 8x + 12$, $\angle B = 15x - 40$, and $\angle C = 10x + 10$.
Determine the longest side of $\triangle ABC$.

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

_____3.   I coach both soccer and tennis, which means I coach a total of 28 players. On my soccer
team, there are 22 players with 6 of the 22 also playing tennis for me. How many total
tennis players do I have? (Draw a Venn diagram to help you!)

A. 6   B. 10   C. 12   D. 14

_____4.   If $\triangle ABC \cong \triangle ERT$ with AB = 10, BC = 13, $\angle A = 39°$, and $\angle R = 88°$, what is RT?

A. 39°   B. 88°   C. 10   D. 13

_____5.   In $\triangle ABC$, $\angle A = 3n$, $\angle B = 5n - 30$, $\angle C = 2n + 10$. What is the measurement of $\angle A$?

A. 20°   B. 40°   C. 60°   D. 80°
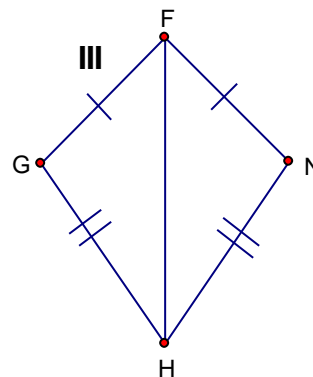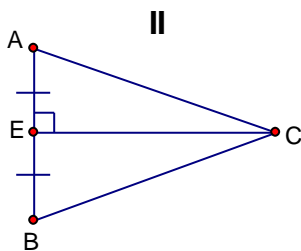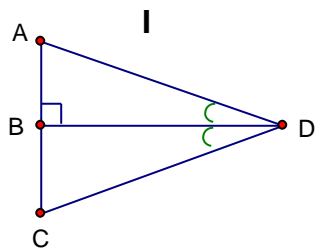
_____6.   In picture I above, what allows you to immediately conclude that $\triangle ABD \cong \triangle CBD$?

A. ASA   B. SAS   C. AAA   D. SAA

_____7.   In picture II above, what allows you to immediately conclude that $\triangle AEC \cong \triangle BEC$?

A. ASA   B. SAS   C. AAA   D. SAA

_____8.   In picture III above, what allows you to immediately conclude that $\triangle FGH \cong \triangle FNH$?

A. SSS   B. SAS   C. AAA   D. SAA

_____9.   When placing a ladder against a building, you are supposed to have the ladder form a 75° angle
with the ground. If I have a 28 foot ladder, how far away from the building must I put the ladder
to form such an angle?

A. 7.2 feet   B. 8.4 feet   C. 9.2 feet   D. 10.4 feet

_____10.   Consider a right triangle that has lengths of 3, 4, and 5. What is the closest angle measurement
between the legs that are 4 and 5?

A. 24°   B. 28°   C. 32°   D. 37°