

Name _____
 Adv Geo period _____

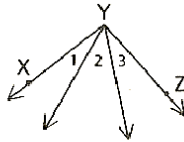
Quiz through 2.4

This quiz is 4 pages (2 pieces of paper double-sided) long. It is worth 63 points.

Format

- There are 14 true or false statements, worth $\frac{1}{2}$ point each (7 total). For example:
 - All definitions are proven.
 - If two angles are supplementary, then they sum to 180° .
- There are 5 exercises of varied point values. This section is worth 21 points total. For example:
 - If an angle is x° , what is the measure of the complement? Of the supplement?
 - The measure of the supplement of an angle exceeds three times the measure of the complement by 30. Find the measure of the supplement.
 - The ratio of two supplementary angles is 3:2. Find the measure of each angle.
- Fill in the blank proofs: There are 23 points in this section. Each missing statement or reason is worth 1 point. Since geometry is about building a system, **you will need to know the chapter 1 axioms too.**
 - Example Proof 1:

Given: $\angle 1 = 20^\circ$
 $\angle 2 = 40^\circ$
 $\angle 3 = 30^\circ$



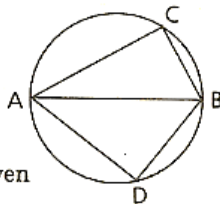
Prove: $\angle XYZ$ is a rt \angle .

1 $\angle 1 = 20^\circ$	1 Given
2 $\angle 2 = 40^\circ$	2 Given
3 $\angle 3 = 30^\circ$	3 Given
4 $\angle XYZ = 90^\circ$	4

5 $\angle XYZ$ is a rt \angle . 5

- Example Proof 2:

Given: $\angle ACB = 90^\circ$
 $\overline{AD} \perp \overline{BD}$



Prove: $\angle C \cong \angle D$	
1 $\angle ACB = 90^\circ$	1 Given
2 $\overline{AD} \perp \overline{BD}$	2 Given
3	3

4 $\angle ACB$ is rt \angle . 4

5 $\angle C \cong \angle D$ 5

- Write out proofs: there are 2 proofs that are 6 points each (12 points total). You do not need to recopy the set up. You do need to draw the T-chart, label the columns, number the lines, and write the proof.