Course: Geometry Document: LIVE Stream 1

Topic: Semester A Exam Review: Part 3 Reference Number: 2049-12

Subtopics: Angle addition postulate, substitution property of equality, Subtraction property of equality, and Using the definition of right angles.

https://youtube.com/c/MrMattTheTutor



- 1) Create a two-column proof to justify the following statements using the given information:
 - a. Given: The measure of angle ABC is 120 degrees.

Point D is on the interior of angle ABC

Angle ABD is 2X degrees

Angle DBC is 3X degrees

Prove: The measure of angle DBC is 72 degrees

- 2) Create a two-column proof to justify the following statements using the given information:
 - a. Given: Angle ABC is a right angle.

Point D is on the interior of angle ABC Angle ABD is 4X degrees

Angle DBC is X degrees

Prove: The measure of angle ABD is 72 degrees

- 3) Create a two-column proof to justify the following statements using the given information:
 - b. Given: Angle ABC is a right angle.

Point D is on the interior of angle ABC

Angle ABD is 4X degrees

Angle DBC is 2X degrees

Prove: The measure of angle DBC is 30 degrees

- 4) Create a two-column proof to justify the following statements using the given information:
 - c. Given: ABC is a straight line.

Point D is on the interior of angle ABC

Angle ABD is 7X degrees

Angle DBC is 5X degrees

Prove: The measure of angle ABD is 105 degrees

- 5) Create a two-column proof to justify the following statements using the given information:
 - d. Given: ABC is a straight line.

Point D is on the interior of angle ABC

Angle ABD is 6X degrees

Angle DBC is 2X degrees

Prove: The measure of angle ABD is 135 degrees

- 6) Create a two-column proof to justify the following statements using the given information:
 - e. Given: ABC is a straight line.

Point D is on the interior of angle ABC Angle ABD is 17X degrees

Angle DBC is 7X degrees

Prove: The measure of angle ABD is 127.5 degrees