**Study Outline: 03 Geometry Fundamentals**

I. Basics: Definitions, Symbols, Labels, & Diagrams

A. Point:

B. Line:

1. Collinear:

2. Noncollinear:

C. Line Segment:

D. Ray:

Endpoint:

E. Angle:

1. Vertex:

2. Sides:

F. Plane:

1. Coplanar:

2. Non-coplanar:

II. Angle Pairs:

A. Vertical angles:

1. Diagram:

2. Calculation:

B. Adjacent angles:

1. Diagram:

2. Calculation:

C. Complementary angles:

1. Diagram:

2. Calculation:

D. Supplementary angles:

1. Diagram:

2. Calculation:

III. Angle Relationships with Parallel lines:

A. Lines:

1. Parallel lines:

2. Transversal:

B. Corresponding Angles:

1. Diagram:

2. Calculation:

C. Alternate Interior Angles:

1. Diagram:

2. Calculation:

D. Alternate Exterior Angles:

1. Diagram:

2. Calculation:

E. Same-side Interior Angles:

1. Diagram:

2. Calculation:

F. Same-side Exterior angles:

1. Diagram:

2. Calculation:

IV. Proofs: