

Chapter 3 Test Prep

THIS TEST WILL BE MOSTLY MULTIPLE CHOICE.

Multiple Choice Questions:

1. Use distance formula or Pythagorean Theorem to find the length of the shortest distance from a point to a line segment (*3 points*)
2. Use properties of parallel lines, transversals, and angle relationships to solve for unknown angle measures (*12 points*)
3. Use theorems about parallel lines, perpendicular lines, and transversals to prove two lines parallel (*6 points*)
4. Given a line, write the equation of the line (in slope-intercept form) parallel or perpendicular to the given line through a given point (*12 points*)
 - a. Remember, you can use 2 methods here:
 - i. slope-intercept form
 - ii. point-slope form
5. Given a figure... (*15 points*)
 - a. Determine which lines/segments are...
 - i. Parallel
 - ii. Perpendicular
 - iii. Skew
 - b. Determine which planes are parallel
6. Given a diagram with two lines and a transversal, identify the angle pairs that are... (*8 points*)
 - a. Corresponding
 - b. Alternate Interior
 - c. Alternate Exterior
 - d. Consecutive Interior
7. Use the slope formula to find slopes of lines, and use them to determine which lines (if any) are parallel or perpendicular (*4 points*)

Short Answer Questions:

8. Find the point that divides a line segment into a given ratio (*EXTRA CREDIT*)
9. Find the slope of a line using the slope formula (*4 points*)
10. Use properties of parallel lines, transversals, and angle relationships to solve for unknown angle measures (*4 points*)
11. Fill in two-column proofs (*13 points*)

“When the time to perform arrives, the time to prepare has passed.” –author unknown