

Chapter 3 Test Prep

PART 1 (Friday Oct. 26)

1. MULTIPLE CHOICE

- a. Given a diagram, identify lines that are skew, parallel, and perpendicular
- b. Parallel Lines and Transversals
 - i. Use angle measures to determine which lines MUST be parallel
 - ii. Determine the information that could be used to prove that two lines are parallel (i.e. “angles 1 and 3 must be congruent because they are corresponding” or “angles 4 and 5 must be supp. because they are consecutive interior” etc.)
 - iii. Given the measure of one angle with parallel lines and a transversal, find other unknown angle measures
 - iv. Identify angle relationships (i.e. “angles 1 and 4 are alternate interior angles”)
- c. Lines in the Coordinate Plane
 - i. Given the graph of a line, determine which equation matches the graph.
 - ii. Given an equation of a line, determine which equation is parallel/perpendicular/coincides to the given line.

2. FREE RESPONSE

- a. Know and explain the difference between parallel and skew lines.
- b. Parallel Lines and Transversals
 - i. Given the measure of one angle with parallel lines and a transversal, find other unknown angle measures
 - ii. Identify angle relationships (i.e. “angles 1 and 4 are alternate interior angles”)
 - iii. Given a diagram, set up algebraic equations to solve for unknown variables and angle measures.
 1. REVIEW SOLVING SYSTEMS OF EQUATIONS!!!!
 - iv. Solve “crook” problems (similar to #43 and #44 in warm-ups)
- c. Two-column proof (just one!)
 - i. You will write the entire proof yourself ☺

PART 2 (Tues. 10/30)

1. FREE RESPONSE

- a. Find coordinate points that match given information about parallel/perpendicular lines (similar to HW #3-7 problem #44)
- b. Find the distance between a point and a line
- c. Write the equation of a line passing through two distinct points
- d. Write the equation of a line passing through a point and a given x- or y-intercept.
- e. Write the equation of a horizontal/vertical line passing through a given point
- f. Write the equation of a line parallel/perpendicular to a given line through a point
- g. Given two points, write the equation of the perpendicular bisector of the segment with those endpoints. (similar to HW #3-7, problem #28)
- h. Constructions
 - ii. Perpendicular line through a point NOT on the line
 - iii. Perpendicular line through a point on the line
 - iv. Parallel line through a point not on the line