

MPM 1D Chapters 4 - 6 Exam Review

Chapter Four

Section 4.2

Solving Linear Equations Using Inverse Operations

Isolating algebraically for a variable.

Work on p. 210 #2ab, 3, 6, 9

Section 4.3

Equation-Solving Strategies

Expanding brackets to isolate for a variable.

P. 221 - 222 #5ac, 7ac

Section 4.5

Solving a Linear System Graphically

Know how to interpret the graph of two intersecting lines.

Review Example Two from handout.

Work on p. 246 # 2, 3a, 6a

Chapter Five

Section 5.1

Exploring Equations of a Line

Distinguish between the equation of a horizontal line and a vertical line.

Work on p. 263 #1

Section 5.2

Different Forms for the Equation of a Line

Graph the line using the y-intercept as the starting point and using the rise over run method to find additional points.

Work on p. 269 # 3ac, 8

Section 5.3

Slope of a Line

Slope formula: $m = \frac{y_2 - y_1}{x_2 - x_1}$

Work on. p. 278 # 3ac, 4ab

Section 5.4

Using Points to Determine the Equation of a Line

Using two points to determine the equation of a line or a point and the slope.

Work on p. 291 # 3, 6a, 7a, 13a, 14a

Section 5.5

Parallel and Perpendicular Lines

Identical slopes are parallel and slopes that are negative reciprocals of each other are perpendicular.

Work on p. 303 #3

Chapter Six

Section 6.1

Interpreting Data

Be able to identify relationships (positive, negative, no relationship).

Distinguish between independent and dependent variables.

Work on p. 326 #2, 3ac

Section 6.2

Lines of Best Fit

Be able to draw a line of best fit. Use your line to interpolate and extrapolate.

Work on p. 337 # 1, 2

Section 6.5

Describing Situations from Graphs

Review what the different slopes (positive, negative, horizontal, vertical) mean in terms of movement.

Work on p. 368 #1, 2