

MAT-121: COLLEGE ALGEBRA

Video Resources: Sections 2.1–2.3

SECTION 2.1—THE RECTANGULAR COORDINATE SYSTEM AND GRAPHS

Plotting Ordered Pairs in the Cartesian Coordinate System

Khan Academy. (2012, February 15). [Introduction to the coordinate plane | Introduction to algebra | Algebra I | Khan Academy](#) [Video]. YouTube.

Mathispower4u. (2014, August 14). [Introduction to the cartesian plane - Part 1 \(L8.1A\)](#) [Video]. YouTube.

Mathispower4u. (2011, September 12). [Identify the quadrant of a point on the coordinate plane](#) [Video]. YouTube.

Graphing Equations by Plotting Points

Mathispower4u. (2009, June 10). [Graphing equations by plotting points - Part 2](#) [Video]. YouTube.

Mathispower4u. (2015, April 14). [Graphing by plotting points - linear \(I6.3\)](#) [Video]. YouTube.

Graphing Equations with a Graphing Utility

Mathispower4u. (2010, October 5). [Graphing lines on the TI83 or TI84](#) [Video]. YouTube.

Finding x-Intercepts and y-Intercepts

Khan Academy. (2015, April 21). [Introduction to intercepts | Algebra I | Khan Academy](#) [Video]. YouTube.

Mathispower4u. (2016, May 1). [Graph linear equations using intercepts](#) [Video]. YouTube.

Mathispower4u. (2018, February 22). [Interpret the meaning of the intercepts of a graph \(sales and profit\)](#) [Video]. YouTube.

Khan Academy. (2013, August 10). [Finding the x-intercept of a line | Algebra I | Khan Academy](#) [Video]. YouTube.

Using the Distance Formula

Mathispower4u. (2015, October 6). [Ex: Determine the distance between two points using the pythagorean theorem](#) [Video]. YouTube.

Mathispower4u. (2015, October 6). [Ex: Find the shortest distance between two locations north and west](#) [Video]. YouTube.

Using the Midpoint Formula

Mathispower4u. (2011, November 22). [Ex: Midpoint of a segment](#) [Video]. YouTube.

Mathispower4u. (2012, September 18). [Ex 1: Find standard equation of a circle given the endpoints of a diameter](#) [Video]. YouTube.

SECTION 2.2—LINEAR EQUATIONS IN ONE VARIABLE

Solving Linear Equations in One Variable

Mathispower4u. (2012, December 14). [Ex: Solving linear equations in one variable with parentheses](#) [Video]. YouTube.

Mathispower4u. (2014, August 12). [Solving multi-step equations \(L5.4\)](#) [Video]. YouTube.

Solving Rational Equations

Mathispower4u. (2010, July 8). [Solving rational equations](#) [Video]. YouTube.

Mathispower4u. (2016, June 23). [Solve basic rational equations](#) [Video]. YouTube.

Khan Academy. (2016, March 8). [Equations with rational expressions | Mathematics III | High School Math | Khan Academy](#) [Video]. YouTube.

Finding a Linear Equation

Khan Academy. (2015, April 22). [Slope-intercept form | Algebra I | Khan Academy](#) [Video]. YouTube.

Khan Academy. (2015, April 21). [Introduction to slope | Algebra I | Khan Academy](#) [Video]. YouTube.

Mathispower4u. (2016, January 15). [Ex: Determine the slope of a line given two points \(horizontal and vertical\)](#) [Video]. YouTube.

The Point Slope Formula

Khan Academy. (2013, August 5). [Introduction to point-slope form | Algebra I | Khan Academy](#) [Video]. YouTube.

Mathispower4u. (2011, September 9). [Ex: Find the equation of a line in point slope and slope intercept form given the slope and a point](#) [Video]. YouTube.

Mathispower4u. (2011, September 9). [Ex: Find the equation of the line in point-slope and slope intercept form given two points](#) [Video]. YouTube.

Standard Form

Khan Academy. (2015, April 22). [Standard form for linear equations | Algebra I | Khan Academy](#) [Video]. YouTube.

Mathispower4u. (2010, September 14). [Linear equations in standard form](#) [Video]. YouTube.

Mathispower4u. (2011, September 7). [Ex 1: Find the equation of a line in standard form given two points](#) [Video]. YouTube.

Vertical and Horizontal Lines

Mathispower4u. (2014, August 14). [Graphing horizontal and vertical lines \(I8.6\)](#) [Video]. YouTube.

Khan Academy. (2017, March 27). [Horizontal & vertical lines | Mathematics I | High School Math | Khan Academy](#) [Video]. YouTube.

Determining Whether Graphs of Lines Are Parallel or Perpendicular

Khan Academy. (2015, July 16). [Parallel and perpendicular lines intro | Analytic geometry | Geometry | Khan Academy](#) [Video]. YouTube.

Khan Academy. (2018, June 18). [Parallel & perpendicular lines from graph](#) [Video]. YouTube.

Writing the Equations of Lines Parallel or Perpendicular to a Given Line

Mathispower4u. (2010, September 21). [Parallel and perpendicular lines - Part 2](#) [Video]. YouTube.

Mathispower4u. (2016, May 1). [Determine the equation of a line perpendicular to a line in slope-intercept form](#) [Video]. YouTube.

SECTION 2.3—MODELS AND APPLICATIONS

Setting Up a Linear Equation to Solve a Real-World Application

Mathispower4u. (2016, January 17). [Ex: Write a linear equation that models cricket chirps \(linear equation application\)](#) [Video]. YouTube.

Mathispower4u. (2016, January 17). [Ex: Write a linear equation that models depreciation \(linear equation application\)](#) [Video]. YouTube.

Using a Formula to Solve a Real-World Application

Khan Academy. (2011, September 30). [Perimeter and area: the basics | Perimeter, area, and volume | Geometry | Khan Academy](#) [Video]. YouTube.

Mathispower4u. (2016, May 13). [Problem solving using distance, rate, time \(running\)](#) [Video]. YouTube.

Mathispower4u. (2011, December 6). [Ex: Find the size of cardboard needed to make a box with a given volume](#) [Video]. YouTube.