

# Graphs and Linear Functions

## Ordered Pairs

Reading a point in the coordinate plane and plotting a point in the coordinate plane

<http://www.youtube.com/watch?v=6oJI1RGbInk>

Solutions to a linear equation in two variables

<http://www.youtube.com/watch?v=KwwulhSw2aw>

## Graphing lines

Graphing a line given the x and y-intercepts

<http://www.youtube.com/watch?v=MVDtL7GCJmk>

Graphing a line given its equation in slope-intercept form

[http://www.youtube.com/watch?v=mvsUD3tDnHk&feature=PlayList&p=75B4F73E96962580&playnext=1&playnext\\_from=PL&index=16](http://www.youtube.com/watch?v=mvsUD3tDnHk&feature=PlayList&p=75B4F73E96962580&playnext=1&playnext_from=PL&index=16)

Graphing a line given its equation in standard form

[http://www.youtube.com/watch?v=0OGKSsSPYTw&feature=PlayList&p=A7774132C3CDFD2C&playnext=1&playnext\\_from=PL&index=9](http://www.youtube.com/watch?v=0OGKSsSPYTw&feature=PlayList&p=A7774132C3CDFD2C&playnext=1&playnext_from=PL&index=9)

Graphing a line through a given point or slope

<http://www.youtube.com/watch?v=l2veOwP9xr4>

Graphing a vertical or horizontal line

<http://www.youtube.com/watch?v=KwBE2pJDWvU>

## Equation of lines

X and y-intercepts of a line given the equation in standard form

<http://www.youtube.com/watch?v=cYwznqH65Ec>

Finding slope given the graph of a line on a grid

[http://www.youtube.com/watch?v=9bm1\\_IJ00IQ](http://www.youtube.com/watch?v=9bm1_IJ00IQ)

Finding slope given two points on the line

[http://www.youtube.com/watch?v=kH9PY0b71\\_Q](http://www.youtube.com/watch?v=kH9PY0b71_Q)

Finding the slope of a line given its equation

<http://www.youtube.com/watch?v=8dLTHGRG8g8>

Writing an equation of a line the y-intercept and a point

<http://www.youtube.com/watch?v=u9YZxBh1AxQ>

Writing the equation of a line given the slope and a point on the line

[http://www.youtube.com/watch?v=rvcfSuLPfgc&feature=Playlist&p=62AE3895E3CE398A&playnext=1&playnext\\_from=PL&index=1](http://www.youtube.com/watch?v=rvcfSuLPfgc&feature=Playlist&p=62AE3895E3CE398A&playnext=1&playnext_from=PL&index=1)

Writing the equations of vertical and horizontal lines through a given point

<http://www.youtube.com/watch?v=bRa2TeDkZQg>

## Inequalities in Two Variables

Graphing a linear inequality in the plane

[http://www.youtube.com/watch?v=0VVQYOMRlkQ&feature=Playlist&p=359314B38CC3D92F&playnext=1&playnext\\_from=PL&index=13](http://www.youtube.com/watch?v=0VVQYOMRlkQ&feature=Playlist&p=359314B38CC3D92F&playnext=1&playnext_from=PL&index=13)

## Sets Relations, and Functions

Set builder notation

<http://www.youtube.com/watch?v=zkdZyKBxht0>

Union and intersection of finite sets

<http://www.youtube.com/watch?v=ktav02fitiQ>

Function tables

<http://www.youtube.com/watch?v=p0p6b50mQIQ>

Introduction to functions: notation and graphs

<http://www.youtube.com/watch?v=bKvPwnnLphU>

Domain and range

<http://www.youtube.com/watch?v=7Hg9JJceyWA>