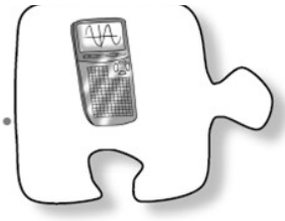
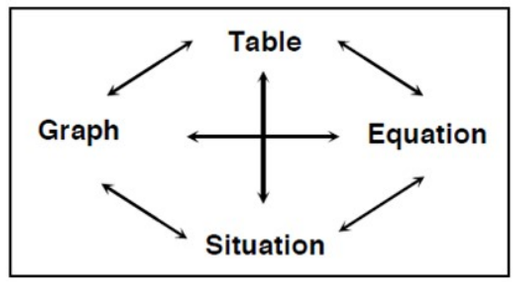
standard window	ZOOM 6 x-min = -10, x-max = 10 y-min = -10, y-max = 10
trace	• use right and left arrow keys to trace along the graph • use the up and down arrow keys to toggle between different graphs • type a value for x and press enter to jump to that point
2nd trace or calc 5: intersect	use the right/left arrow keys to get close to the point of intersection...hit enter 3 times

1.1.4 How can I represent intersections?



Points of Intersection in Multiple Representations

Throughout this course, you will represent functions in several different ways, and you will find connections between the various representations. These connections will give you new ways to investigate functions and to justify your conclusions.



How can these connections help you understand more about systems of equations? In this lesson, you will make connections between ways of representing a system of equations as you use your graphing calculator to find the points of intersection in multiple representations.

Facilitator needs to read Problem 1 to the team.

multiple representations of points of intersection

$f(x) = 2x^2 - 5x + 6$

$g(x) = -2x^2 - x + 30$

graph

table

algebra

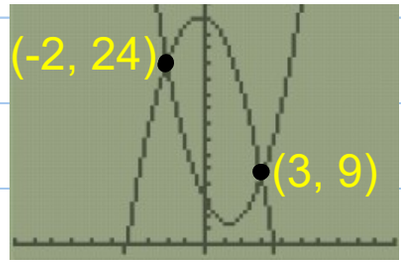
p. 21

multiple representations of points of intersection

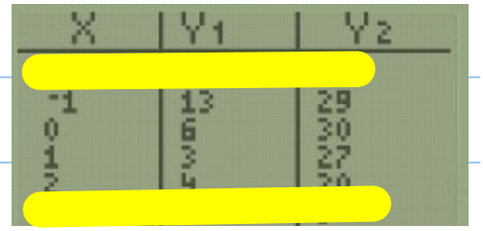
$f(x) = 2x^2 - 5x + 6$

$g(x) = -2x^2 - x + 30$

graph



table



algebra

solve using substitution

$f(x) = 2x^2 - 5x + 6$

$g(x) = -2x^2 - x + 30$

key points/ questions

classwork

Summary

What are the different ways you can represent intersections?