Sec 2.3

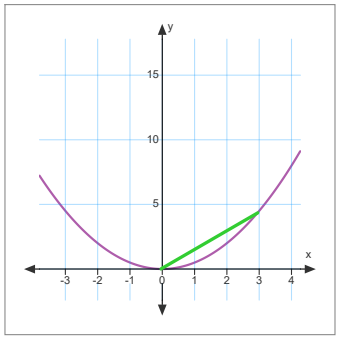
IRC by graphing

For ARC, we called the line that joined any 2 points on a function the SECANT

The slope of the secant is the ARC between those 2 points.

$y = 0.5x^2$

X	Y
0	0
1	0.5
2	2
3	4.5



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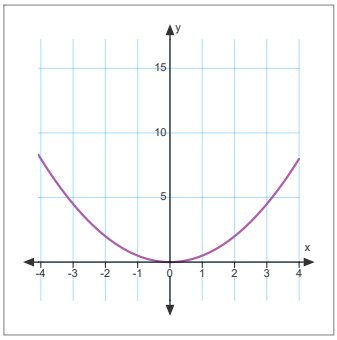
But, IRC is found for a single point.

$y = 0.5x^2$

X	Y
0	0
1	0.5
2	2
3	4.5



So, what do I draw for IRC at x=2?

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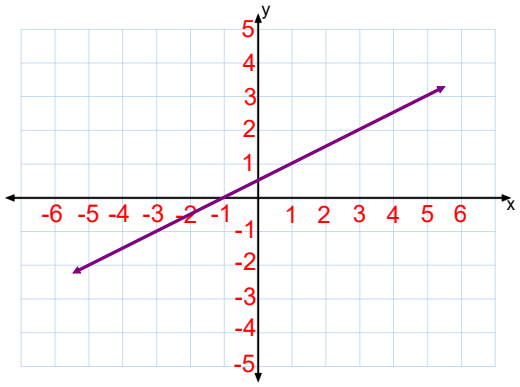
Def^{n} page
TANGENT

Quick review of how to find slope from a graphed line....



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The slope of a tangent cannot be found directly because only ***one*** point is known.

To find the slope of the tangent:
1/ Graph the function carefully, draw on an accurate tangent line, calculate the slope of the line.

or

2/ Find the slope of a series of secant lines that pass through the fixed point of tangency and points that get closer and closer to the point of tangency.

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15 minute practice

p92 #4,6

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