# Macintosh HD:Users:Amit:Progs:ExcelerateLive:HTML:ml.png Excelerate Lesson Plan

**Midpoint Formula**

**About These Problems**

**The midpoint formula is very simple. It tells you the point that is exactly at the center of the direct line between any two points.**

**Formula.**  (xm, ym) is the midpoint of (x1, y1) and (x2, y2)

xm = (x1 + x2) / 2

ym = (y1 + y2) / 2

**Question.**  If the midpoint of point A and B is (2,3) and A is (0,0) what is point B?

1. (4,6)
2. (3,5)
3. (3,6)
4. (4,5)
5. (7,8)

**Answer.** **1**: Plug the points into the midpoint formula and solve.

2 = (0 + x) / 2 -> x=4

3 = (0 + y) / 2 -> y=6