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Activity 81

a) <http://www.youtube.com/watch?v=UaEmoOH-SUA>

- I. What type of lines have the same slope but different y-intercept? Why?
- II. Use the "midpoint formula" to find the midpoint of $P_1 (6,7)$ and $P_2 (2,-4)$
- III. Use the "midpoint formula" to find the midpoint of $P_1 (-1,3)$ and $P_2 (-5,0)$
- IV. Use the "distance formula" to find the distance between points $P_1 (4,2)$ and $P_2 (8,5)$
- V. Use the "distance formula" to find the distance between points $P_1 (0,1)$ and $P_2 (-4,6)$
- VI. Use the "distance formula" to find the distance between points $P_1 (0,-8)$ and $P_2 (9,0)$

b) <http://www.youtube.com/watch?v=e1tIVbA-2tA> watch the video and represent graphically these equations:

- I. $(x+2)^2 + (y-3)^2 = 16$
- II. $(x+3)^2 + (y-1)^2 = 1$
- III. $(x-2)^2 + (y+6)^2 = 9$
- IV. $(x+1)^2 + (y+3)^2 = 25$