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(A18)

(circle with radios r centered at (apb) how can we describe this with an equation? All points at distance r from (apb).

AU (Xx) such that

d((ab),(x,y)=r.

1 (x-a) + (y-b) = r

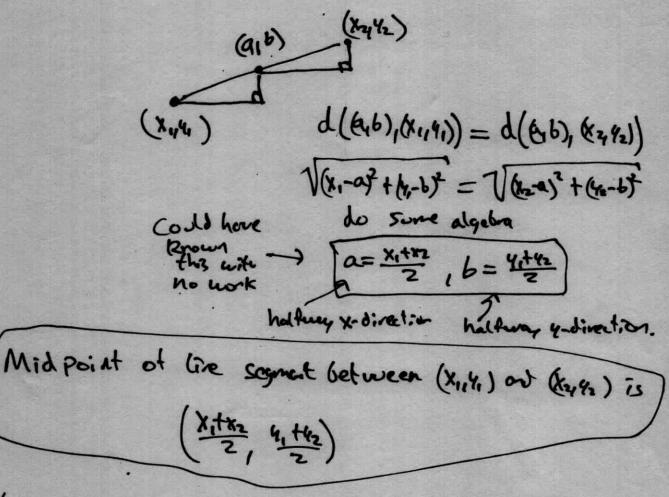
 $\frac{1}{(x-a)+(y-b)^2} = r^2$

ext draw graph of

exe (21-5)

(b) Find the equation of the circle that has the points (1,8) and (5,-6) as the endpoints of a diameter.

need to be able to find the midpoint of a line segment:

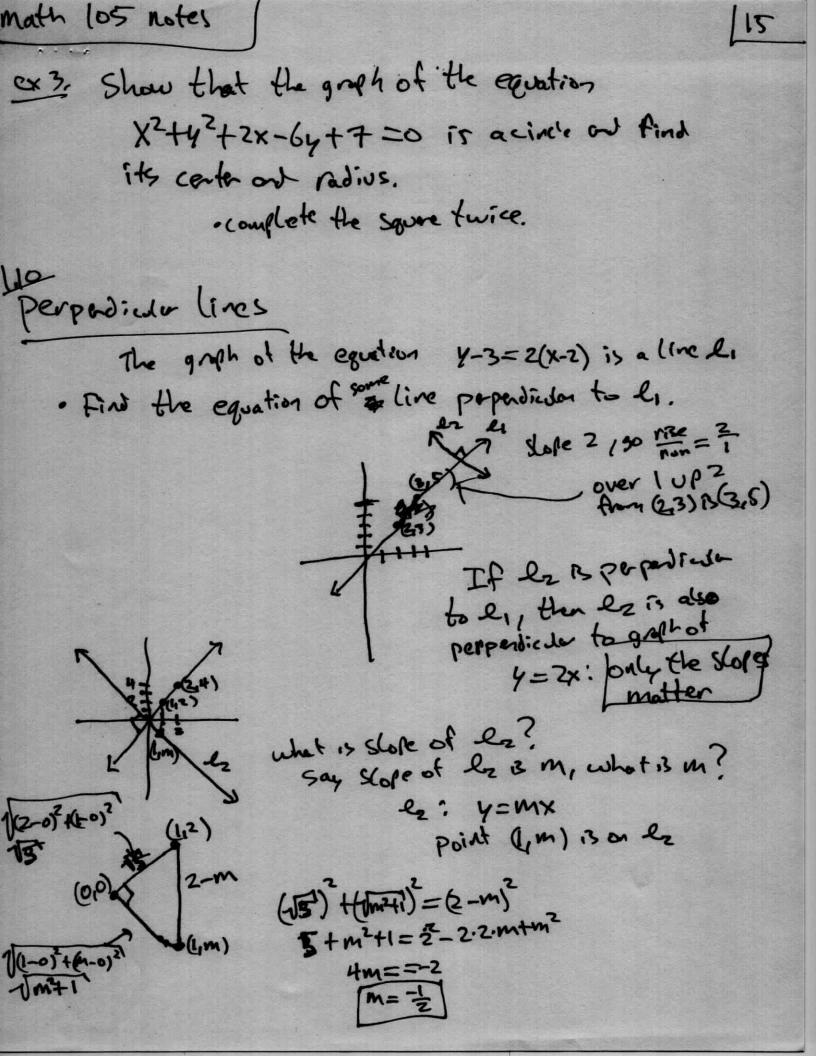


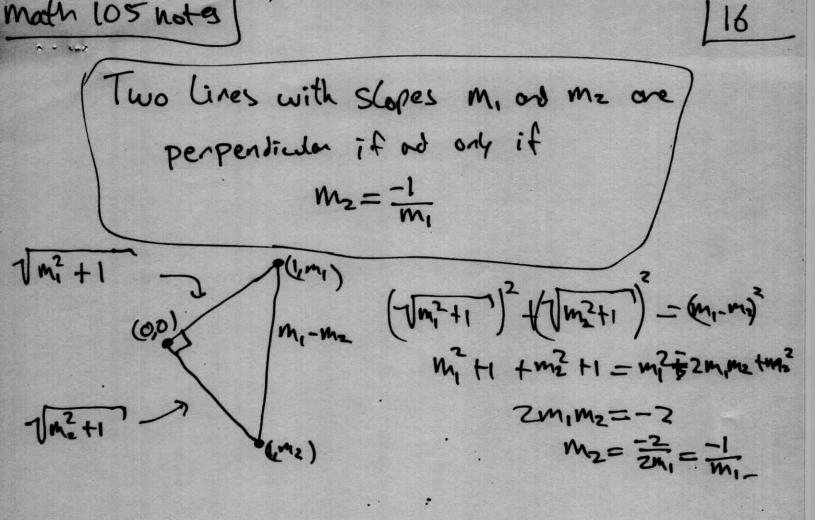
to the Salve ex 2 pat L, of and mid point P

of and distance from P to

one end to get radius.

plug into circle exportion





CX. Find an expection of the line that is perpendicular to the line 4x+6y+5=0 and passes through the point (1,2)

Ski Shicis that the points (3,3), (8,17) and (11,5) are the vertices of a right triangle.

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