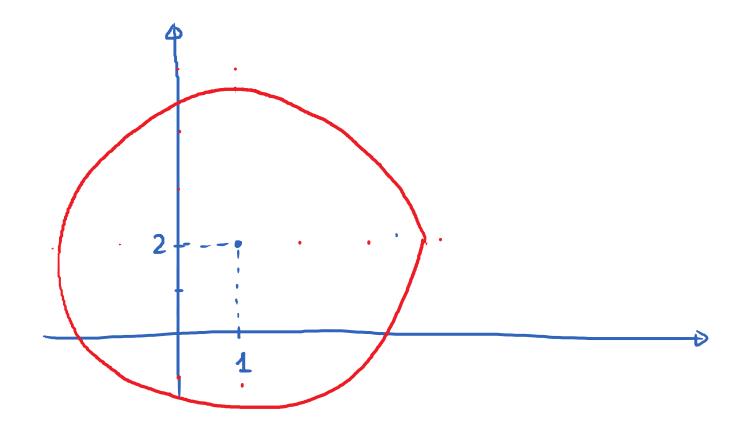


E.g. Find the midpoint of the line segment with endpoints (1,2) and (7,-3).

×mid point =
$$\frac{1+7}{2} = 4$$
 [Midpaint $(4, -\frac{1}{2})$
y midpaint = $\frac{2-3}{2} = -\frac{1}{2}$]
Obj 3: The Standard Equation of a circle.



Center = (1,2). Radius = 3

Thursday, October 19, 2017 1021 AM

$$(x, y)$$
 is any point on the incle, then:
distance from (x, y) to $(1, 2) = 3$
 $\sqrt{(x-1)^2 + (y-2)^2} = 3$
 $(x-1)^2 + (y-2)^2 = 9$
 $(x-1)^2 + (y-2)^2 = 12$
 $(x-1)^2 + (y-2)^2 = 12$

Thursday, Declare 10, 2017 to 25 MM

$$\left(\left(X+4\right)^{2}+\left(y+8\right)^{2}=36\right)$$
E.g. Given the standard equation of a circle:

$$\left(x+5\right)^{2}+\left(y-11\right)^{2}=5$$
Find center and radius of this circle.
(arter: (-5, 11). Radius: $\sqrt{5}$
Obj #44: The general form of the equation of
a circle. a general equation of a

$$\frac{E.g.}{x^{2}+y^{2}+4x-4y-1}=0$$
(arter: $\left(x+2\right)^{2}+\left(y-2\right)^{2}=9$
Thursday equation (x+2)² + (y-2)² = 9
D (enter: (-2,2); Radius = 3

