

Analytic Geometry Review Problem Set

1. Determine the center of a circle that goes through the three points, $A(1, 1)$, $B(4, 1)$, and $C(1, 4)$. Check to verify if the circle with this center and radius is tangent to the line $x + y = 5$. Determine the radius of the circle that passes through these three points. (10 points)

Circle with center $(2.5, 2.5)$

$$A(1, 1) \rightarrow (1 - 2.5)^2 + (1 - 2.5)^2 = 2.5^2 + 2.5^2 = 12.5$$

$$B(4, 1) \rightarrow (4 - 2.5)^2 + (1 - 2.5)^2 = 2.5^2 + 2.5^2 = 12.5$$

$$C(1, 4) \rightarrow (1 - 2.5)^2 + (4 - 2.5)^2 = 2.5^2 + 2.5^2 = 12.5$$

$$r = \sqrt{12.5} = 3.54$$

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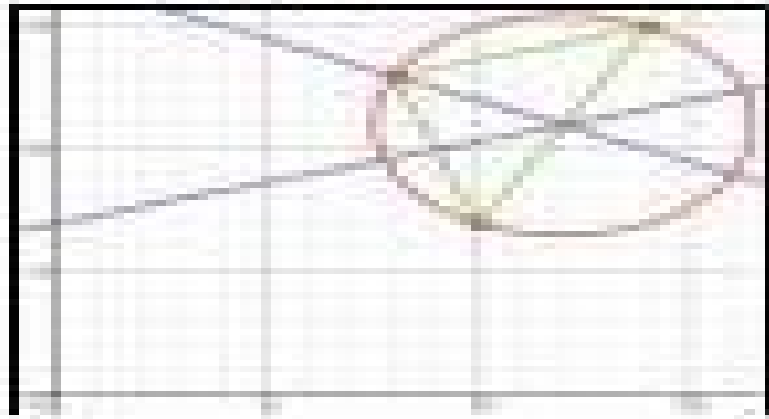
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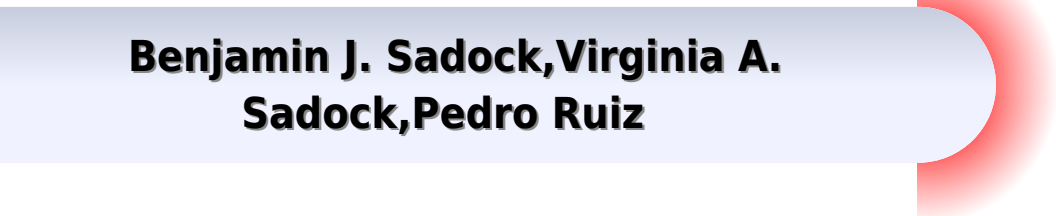
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Answers Analytic Geometry Review

**Benjamin J. Sadock, Virginia A.
Sadock, Pedro Ruiz**



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