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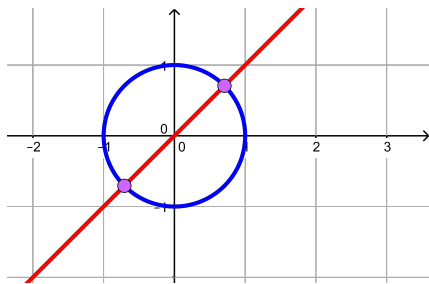
Example: Find solutions to the System of Equations:

$$\begin{aligned} y &= x \\ y^2 + x^2 &= 1 \end{aligned}$$

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$$y = x$$
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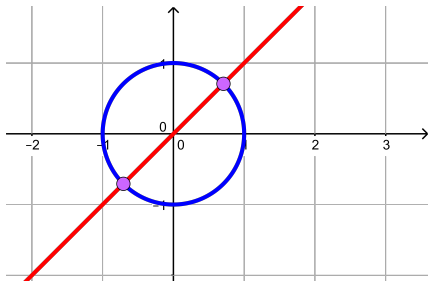


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Graphically, solutions are the Points of Intersection



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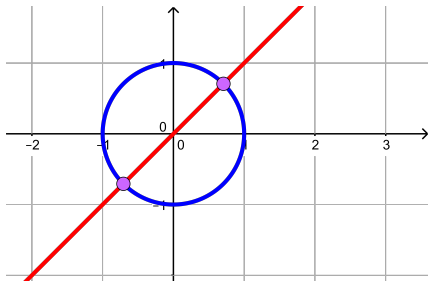
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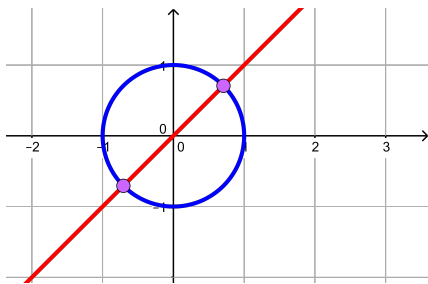
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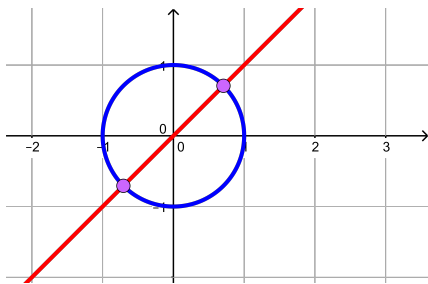
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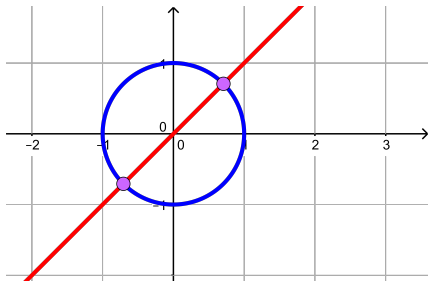
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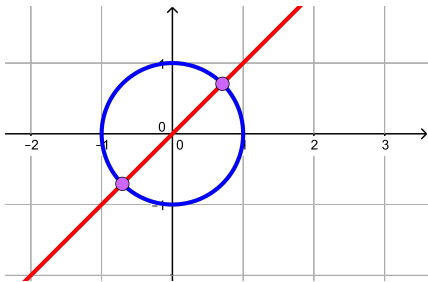
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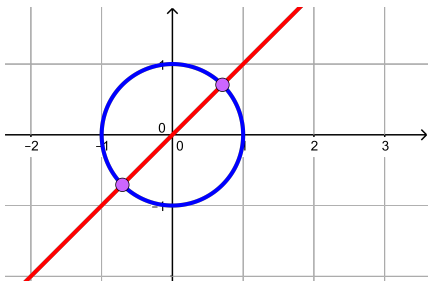
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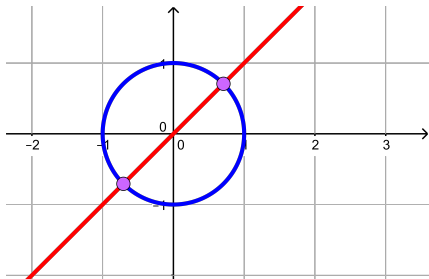
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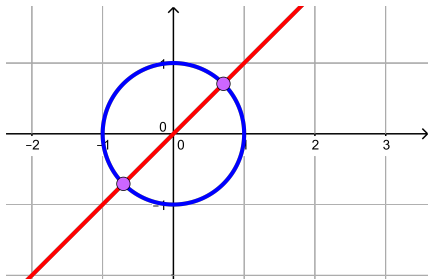
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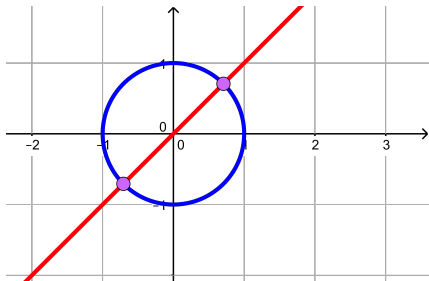
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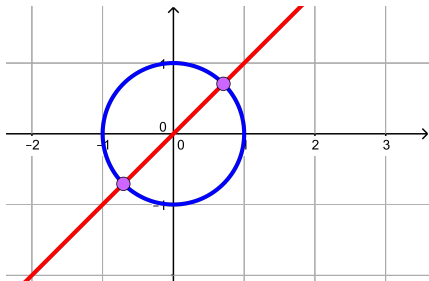
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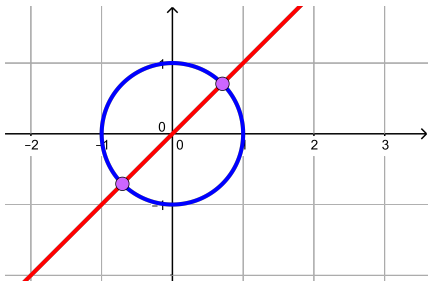
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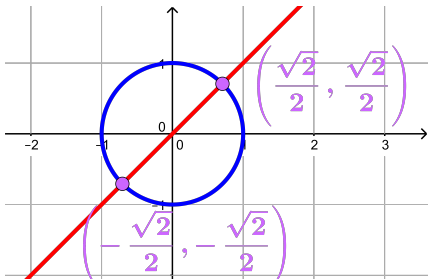
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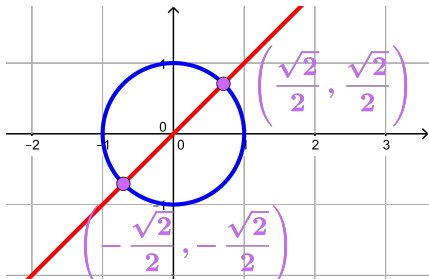
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Note: The graph was not used to find solutions, only to visualize them