원 위의 한 점에서의 접선의 방정식
(Equation of the tangent line meeting with a given point on the circle)

Equation of the tangent line meeting with a given point on the circle

Start

Equation of the tangent line meeting with a given point on the circle

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$$(x - x_0)^2 + (y - y_0)^2 = r^2$$

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(x_0, y_0)

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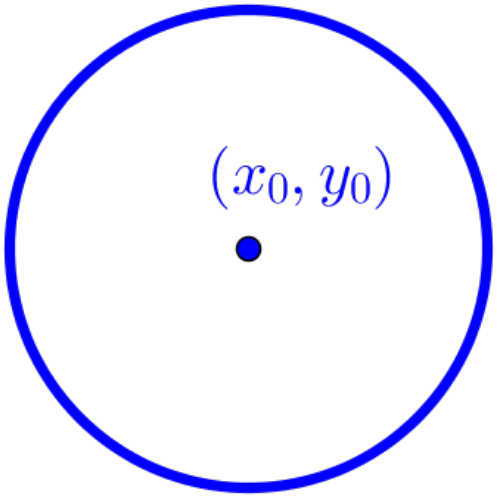

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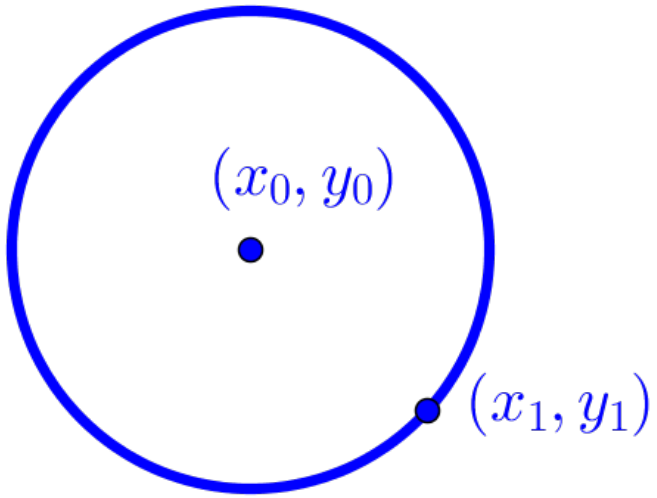

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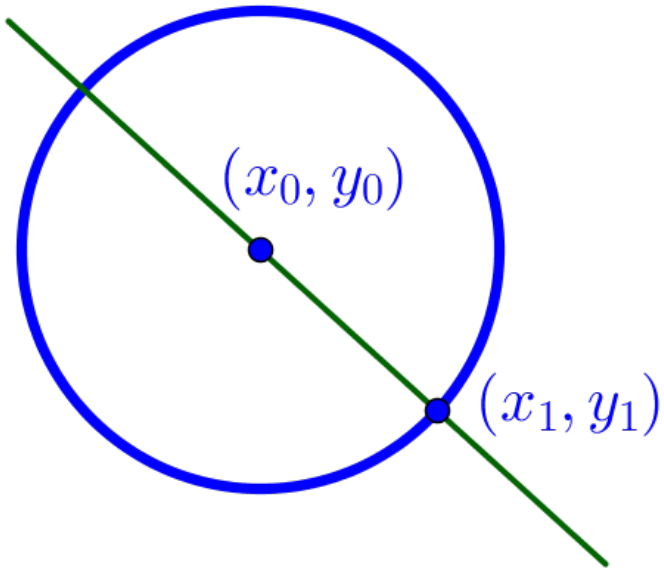

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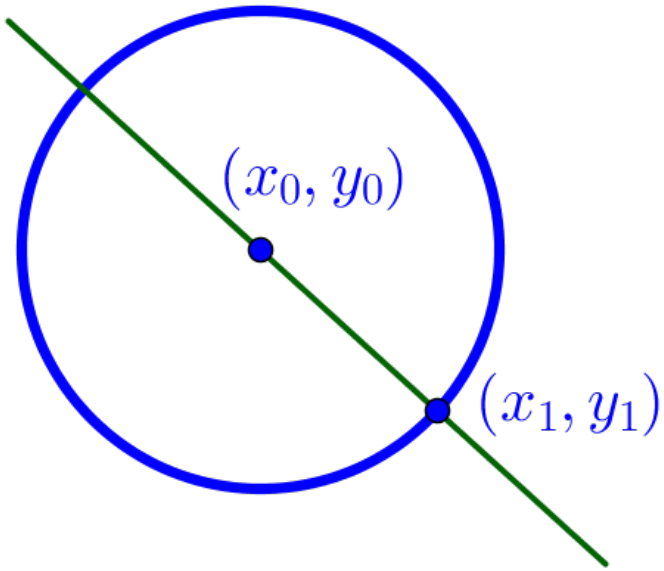

$$(y_1 - y_0)(x - x_0) - (x_1 - x_0)(y - y_0) = 0$$

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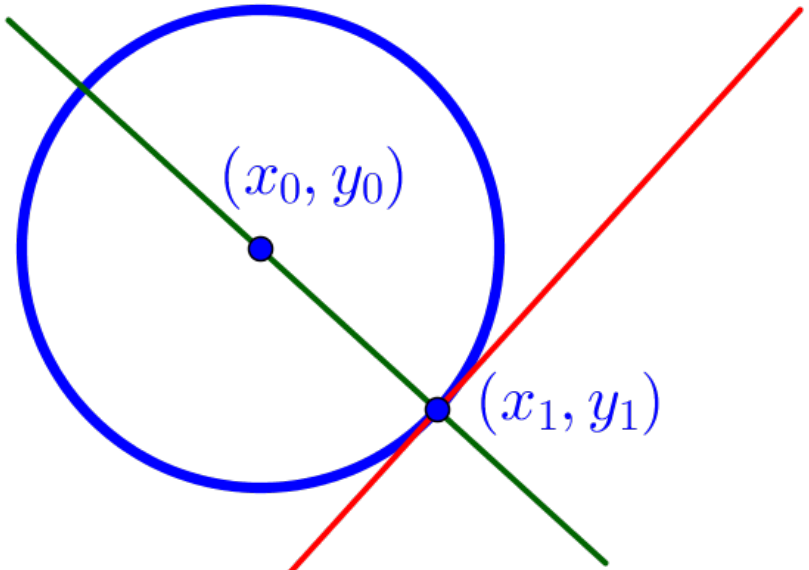

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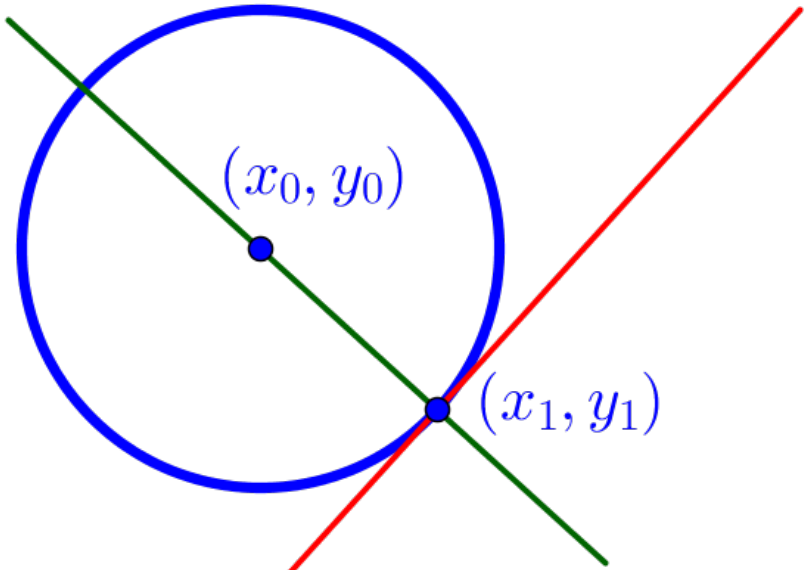

$$(y_1-y_0)(x-x_0)-(x_1-x_0)(y-y_0)=0$$

$$(x_1-x_0)(x-x_1)+(y_1-y_0)(y-y_1)=0$$

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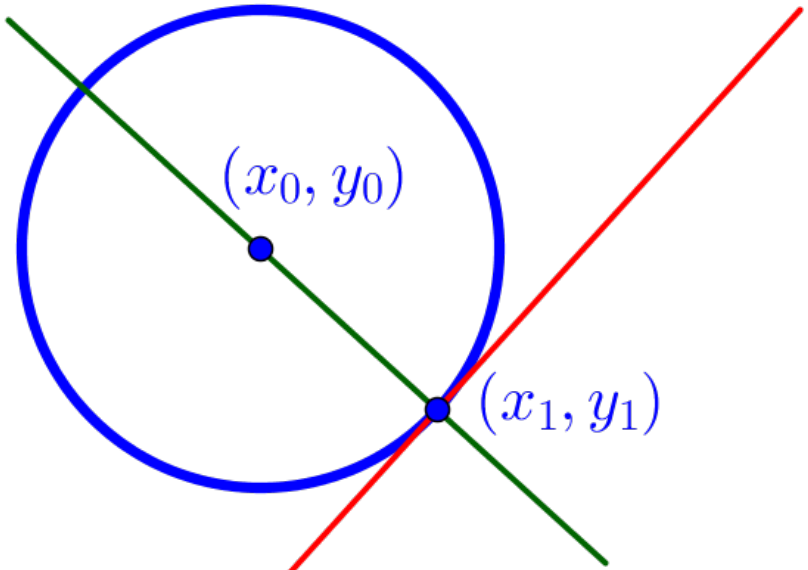
Home

$$(x-x_0)^2+(y-y_0)^2=r^2$$



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