

## 원 위의 점에서의 접선의 방정식 (Equation of a tangent to a point on a circle)

# Equation of a tangent to a point on a circle

▶ Start

▶ End

# Equation of a tangent to a point on a circle

▶ Start

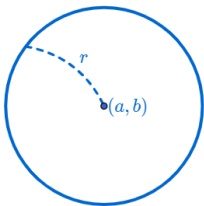
▶ End

•  $(a, b)$

# Equation of a tangent to a point on a circle

▶ Start

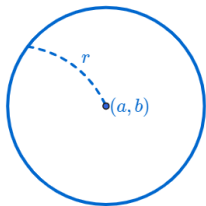
▶ End



# Equation of a tangent to a point on a circle

▶ Start

▶ End



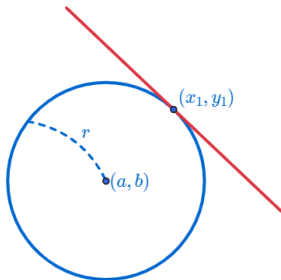
$$(x - a)^2 + (y - b)^2 = r^2$$



# Equation of a tangent to a point on a circle

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▶ End

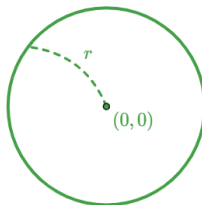
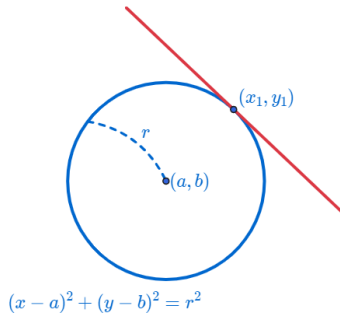


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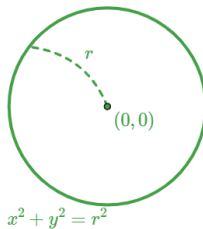
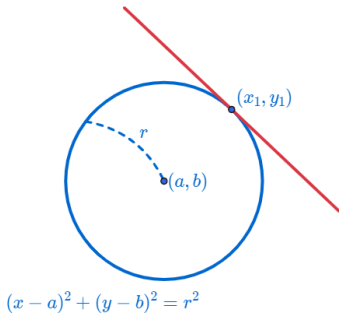




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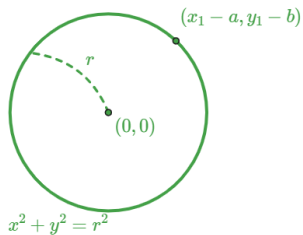
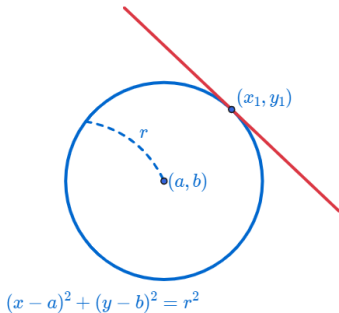
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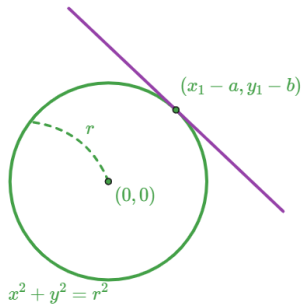
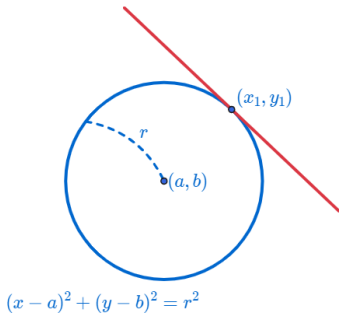
► End



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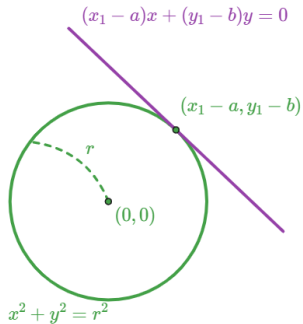
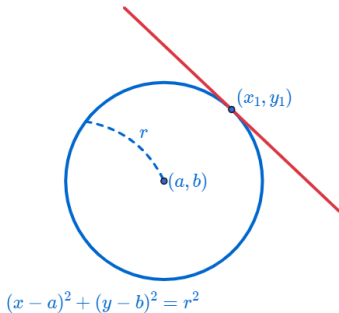
► End



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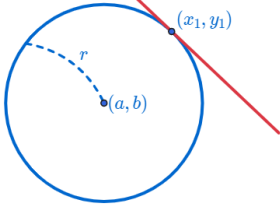
► Start

► End



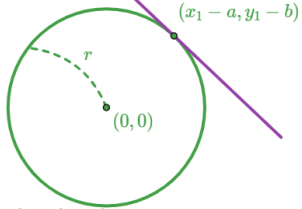
## Equation of a tangent to a point on a circle

$$(x_1 - a)(x - a) + (y_1 - b)(y - b) = 0$$



$$(x - a)^2 + (y - b)^2 = r^2$$

$$(x_1 - a)x + (y_1 - b)y = 0$$



$$x^2 + y^2 = r^2$$

Github:

<https://min7014.github.io/math20210519001.html>

Click or paste URL into the URL search bar,  
and you can see a picture moving.