

# 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

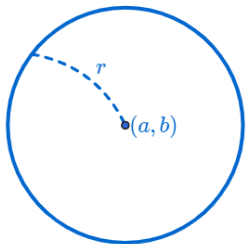
▶ End

• $(a, b)$

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

▶ Start

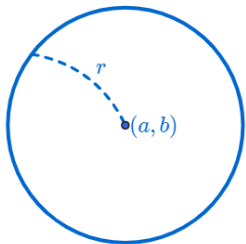
▶ End



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

▶ Start

▶ End

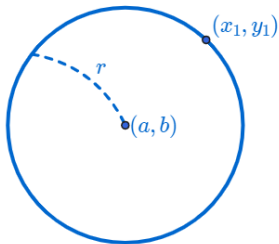


$$(x - a)^2 + (y - b)^2 = r^2$$

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

▶ Start

▶ End

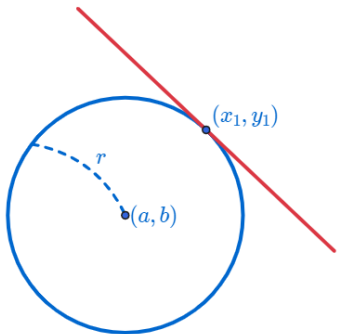


$$(x - a)^2 + (y - b)^2 = r^2$$

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

▶ Start

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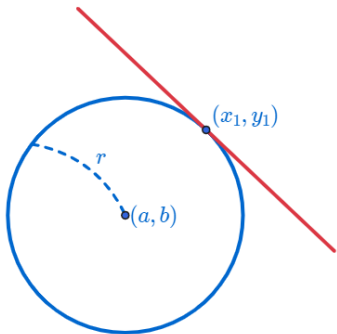


$$(x - a)^2 + (y - b)^2 = r^2$$

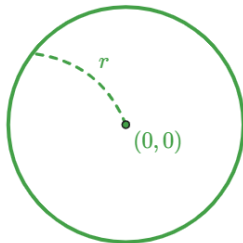
# Equation of a tangent to a point on a circle

▶ Start

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

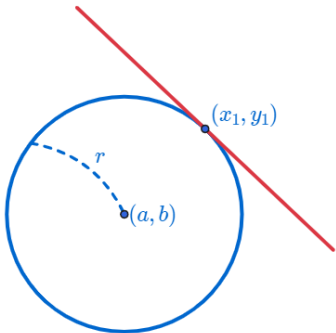




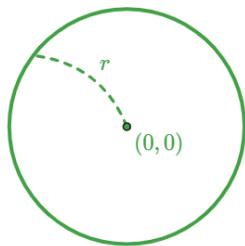
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▶ Start

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

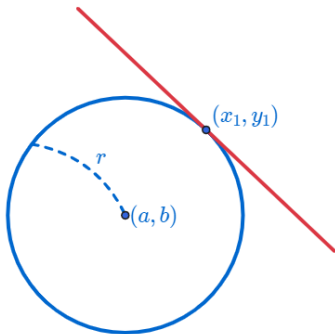


$$x^2 + y^2 = r^2$$

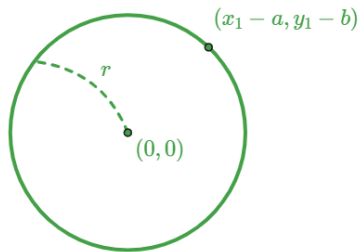
# Equation of a tangent to a point on a circle

▶ Start

▶ End



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

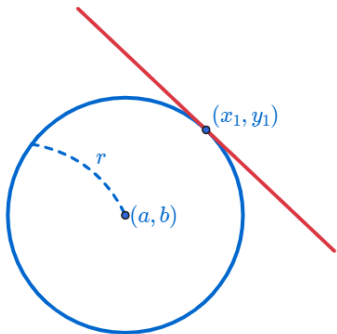


$$x^2 + y^2 = r^2$$

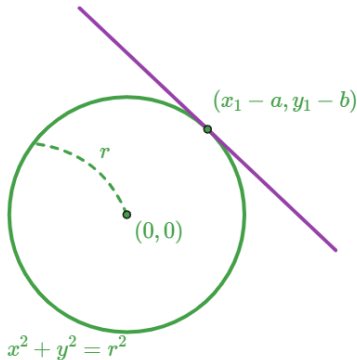
## Equation of a tangent to a point on a circle

► Start

► End



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



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

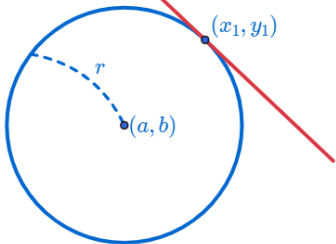


# Equation of a tangent to a point on a circle

▶ Start

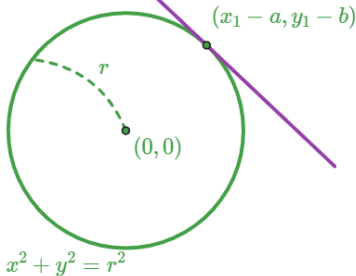
▶ End

$$(x_1 - a)(x - a) + (y_1 - b)(y - b) = r^2$$



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

$$(x_1 - a)x + (y_1 - b)y = r^2$$



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

Github:

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

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