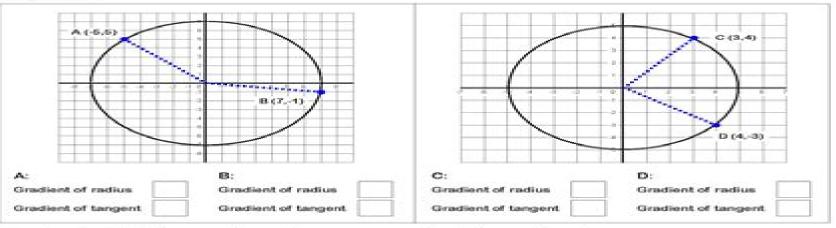
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Equations of Tangents to Circles



Section A: For the circles shown, find the gradient of the radius and gradient of the tangent at the points.



Section B: Find the equation of the tangents to the circles at the points.

1)
$$x^2 + y^2 = 50$$
 at $(-5, -5)$

2)
$$x^2 + y^2 = 50$$
 at (7, 1)

3)
$$x^2 + y^2 = 25$$
 at (4, 3)

4)
$$x^2 + y^2 = 25$$
 at (-3, 4)

Section C: Find the equation of the tangents to the circles at the points.

1)
$$x^2 + y^2 = 20$$
 when $x = 2$ and $y > 0$

2)
$$x^2 + y^2 = 5$$
 when $x = -2$ and $y > 0$

3)
$$x^2 + y^2 = 13$$
 when $x < 0$ and $y = -2$

4)
$$x^2 + y^2 = 41$$
 when $x > 0$ and $y = -5$

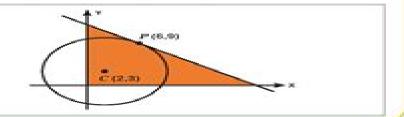
Section D: Find the points where the tangents to the circles intersect the coordinate axes.

1)
$$x^2 + y^2 = 45$$
 at (6,3)

2)
$$x^2 + y^2 = 29$$
 at $(-5,2)$

EXTENSION:

A circle with centre C(2,3) passes through the point P(6,9). The tangent to the circle at the point P forms a triangle with the coordinate axes. Find the area of the triangle.



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