A picture containing drawing

Description automatically generatedEquations of Tangents of Circles GREEN

Find the equations of the tangents of the following circles at the points given.

|  |  |  |  |
| --- | --- | --- | --- |
| at the point | at the point | at the point | at the point |
| at the point | at the point | at the point | at the point |

A picture containing drawing

Description automatically generatedEquations of Tangents of Circles AMBER

Find the equations of the tangents of the following circles at the points given. Start by sketching each of the circles.

|  |  |  |  |
| --- | --- | --- | --- |
| at the point  Gradient of radius  Gradient of tangent | at the point  Gradient of radius  Gradient of tangent | at the point | at the point |
| at the point | at the point | at the point | at the point |

A picture containing drawing

Description automatically generatedEquations of Tangents of Circles RED

Find the equations of the tangents of the following circles at the points given. Start by sketching each of the circles.

|  |  |  |  |
| --- | --- | --- | --- |
| at the point  Gradient of radius  Gradient of tangent | at the point  Gradient of radius  Gradient of tangent | at the point | at the point |
| at the point | at the point | at the point | at the point |