

**(a)** Find the equation of the circle,  $C$ , for which  $AB$  is a diameter.

[4]

This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.

- (b)** Find the equation of the tangent,  $T$ , to circle  $C$  at the point  $B$ .

[4]

This image shows a full page of white paper with horizontal dashed lines, typical of primary school handwriting practice paper. The lines are evenly spaced and run across the entire width of the page. There are no margins, text, or other markings present.

- (c) Find the equation of the circle which is the reflection of circle  $C$  in the line  $T$ .

[3]

[illegible]