



The diagram shows the circle with equation  $(x - 2)^2 + y^2 = 8$ . The chord  $AB$  of the circle intersects the positive  $y$ -axis at  $A$  and is parallel to the  $x$ -axis.

- (a)** Find, by calculation, the coordinates of  $A$  and  $B$ . [3]

[illegible]

