



The diagram shows the graph of $y = |2x - 3|$.

- (a) State the coordinates of the points of intersection with the axes. [2]
- (b) Given that the graphs of $y = |2x - 3|$ and $y = ax + 2$ have two distinct points of intersection, determine
- (i) the set of possible values of a , [4]
- (ii) the x -coordinates of the points of intersection of these graphs, giving your answers in terms of a . [3]