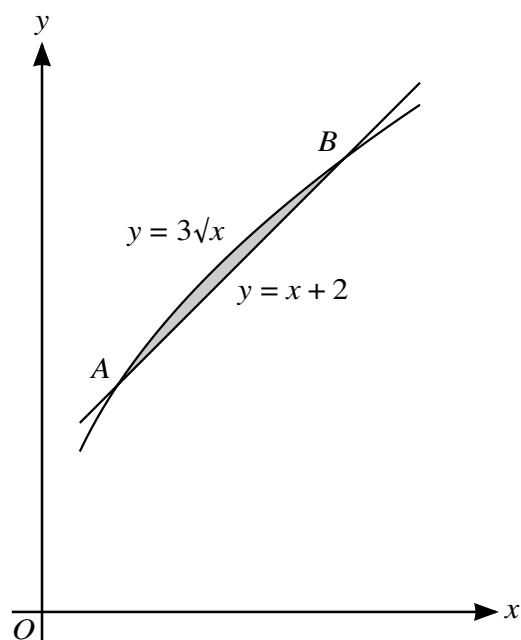


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The diagram shows parts of the graphs of $y = x + 2$ and $y = 3\sqrt{x}$ intersecting at points A and B .

- (i) Write down an equation satisfied by the x -coordinates of A and B . Solve this equation and hence find the coordinates of A and B . [4]
- (ii) Find by integration the area of the shaded region. [6]