

The diagram shows curves with equations $y = 2x^{\frac{1}{2}} + 13x^{-\frac{1}{2}}$ and $y = 3x^{-\frac{1}{2}} + 12$. The curves intersect at points *A* and *B*.

(a)	Find the coordinates of A and B .	[4]

(b)	Hence find the area of the shaded region.	[5]