



The diagram shows the curves with equations $y = x^{-\frac{1}{2}}$ and $y = \frac{5}{2} - x^{\frac{1}{2}}$. The curves intersect at the points $A(\frac{1}{4}, 2)$ and $B(4, \frac{1}{2})$.

- (a) Find the area of the region between the two curves.

[6]

[illegible]

