11.8) Finding areas

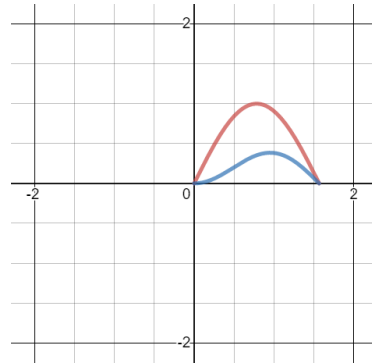| Worked example	Your turn
A finite region is bound by the curve $y = \dfrac{3}{\sqrt{9+4x}}$, the x-axis, and the lines $x = 0$ and $x = 4$. Use integration to find the area of the region.	A finite region is bound by the curve $y = \dfrac{9}{\sqrt{4+3x}}$, the x-axis, and the lines $x = 0$ and $x = 4$. Use integration to find the area of the region.
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Worked example

A finite region is bound between the curves $y = \sin 2x$ and $y = \cos x \sin^2 x$ where $0 \leq x \leq \frac{\pi}{2}$. Use integration to find the area of the region.

Your turn

A finite region is bound between the curves $y = \sin 2x$ and $y = \sin x \cos^2 x$ where $0 \leq x \leq \frac{\pi}{2}$. Use integration to find the area of the region.

$$\frac{2}{3}$$