**5C Composite Volumes of Revolution**

Cylinder = $πr^{2}h$

Cone = $\frac{1}{3}πr^{2}h$

1. The region R is bounded by the curve with equation $y=x^{3}+2$, the line $y=5-2x$, and the x and y axes.
2. Verify that the coordinates of A are (1,3)



1. A solid is created by rotating the region 360˚ about the x-axis. Find the volume of this solid
2. The diagram shows the region R bounded by the curves with equations:

$y=\sqrt{x}$ and $y=\frac{1}{8x}$ and the line $x=1$.

The region is rotated through 360˚ about the x-axis.

Find the exact volume of the solid generated.

