Volumes of Solids of Revolution -Worksheet

Find an integral expression for the volume of the solid obtained by rotating region R around the line L.

1. R : the region bounded by $y = x$ and $y = \sqrt{x}$; $L : x = 2$.
2. R : the region bounded by $y = x$ and $y = \sqrt{x}$; $L : x = 2$.
3. R : the region bounded by $y = 1 - x^2$, $y = 1$ and $x = 1$; $L : x = 0$.
4. R : the region bounded by $y = 1 - x^2$, $y = 1$ and $x = 1$; $L : x = 1$.
5. R : the region bounded by $y = 1 - x^2$, $y = 1$ and $x = 1$; $L : x = 2$.
6. R : the region bounded by $y = 1 - x^2$, $y = 1$ and $x = 1$; $L : x = -0.5$.
7. R : the region bounded by $y = \sqrt{x}$ $x = 1$ and $y = 0$; $L : y = 0$.
8. R : the region bounded by $y = x^2$ and $y = 2x$; $L : x = 3$.
9. R : the region bounded by $y = x^2$ and $y = 2x$; $L : y = 0$.
10. R : the region bounded by $y = x^2$ and $y = 2x$; $L : y = 7$.

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