Example: Determine the volume of the solid obtained by rotating the region bounded by 
\( y = (x-1)(x-3)^2 \) and the x-axis about the y-axis.

\[ y = (x-1)(x-3)^2 \]
**Example**: Determine the volume of the solid obtained by rotating the region bounded by $y = \sqrt{x}$, $x = 8$ and the $x$-axis about the $x$-axis.
Example: Determine the volume of the solid obtained by rotating the region bounded by $y = 2\sqrt{x-1}$ and $y = x - 1$ about the line $x = 6$. 
Example: Determine the volume of the solid obtained by rotating the region bounded by $x = (y - 2)^2$ and $y = x$ about the line $y = -1$. 

\[
\begin{align*}
\text{Example: Determine the volume of the solid obtained by rotating the region bounded by } & x = (y - 2)^2 \\
& \text{and } y = x \text{ about the line } y = -1.
\end{align*}
\]