Name: _____ Score: _____

Teacher: _____ Date: _____

Volume of revolution 3

1. Rotate the region bounded by $y = 2x + 1$; $y = 3$ and the $x = 4$ about the line $y = 10$.	**2.** Rotate the region bounded by $x = y^2 - 4$; $x = 6 - 3y$ about the line $y = -8$.
3. Rotate the region bounded by $y = x^2 - 6x + 9$; and $y = -x^2 + 6x - 1$ about the line $x = 8$.	**4.** Rotate the region bounded by $y = x^2$; $y = 0$; $x = 1$; $x = 2$ about the line $x = 1$.
5. Rotate the region bounded by $y = x^2$; $y = 0$; $x = 1$; $x = 2$ about the line $x = 4$.	**6.** Rotate the region bounded by $y = \sqrt{x-1}$; $y = 0$; $x = 5$; about the line $y = 3$
7. Rotate the region bounded by $y = \frac{e^{0.5x}}{x+2}$; $y = 5 - \frac{x}{4}$; $x = -1$ and $x = 6$ about the line $x = -2$	