













Homework

P5

	23 May 26. 2002 Let <i>R</i> be the region bounded by the graphs of the equation $y = x^2 + 4$, $2x + y = 2$, $x = 0$ and $x = 1$. Find the volume of resulting solid if <i>R</i> is revolved about the line $y = 5$
2	18 May 24,2000 Let <i>R</i> be the region bounded by the graphs of $y + x^2 - 2x = 0$, $y + 2x = 0$ Set up an integral that can be used to find the volume of the solid generating by revolving <i>R</i> about the line $y = 1$
<u>3</u>	Let <i>R</i> be the region bounded by the graphs of $y + x^2 - 2x = 0$, $y + 2x = 0$ Set up an integral that can be used to find the volume of the solid generating by revolving <i>R</i> about the line $y = 1$
<u>4</u>	20 January 3,2001 Let <i>R</i> be the region bounded by the graphs of the equation $y = x^2 + 3$, $y = 0$, x = 0 and $x = 2$ Set up an integral that can be used to find the volume of the solid generating by revolving <i>R</i> about the line the line $x = -5$
<u>5</u>	40 August 7, 2011 (3 Points) Set up an integral for the volume that is obtained by revolving the region enclosed between the curves $y = x^2 - 5x$ and $y = x$ about the lines $x = -1$
<u>6</u>	23 May 26. 2002 Let <i>R</i> be the region bounded by the graphs of the equation $y = x^2 + 4$, $2x + y = 2$, $x = 0$ and $x = 1$ Set up an integral that can be used to find the volume of the resulting solid if <i>R</i> is revolving about the line $x = 2$
2	24 May 27. 2001 Set up an integral that can be used to find the volume of the solid obtained by revolving the region bounded by the graphs of the equation $y = 4x - x^2$, and $y = x$ about $x = 3$
<u>8</u>	27 May 30. 2006 The region bounded by the curves $y = \sqrt{x-1}$, $y = 0$, $x = 5$ is revolved abut the line $x = 7$. Set up an integral that can be used to find the volume of the resulting solid in each case
<u>9</u>	28 January 13. 2007 The region bounded by the curves $y = x^2$, $y = 4$ is revolved abut the line $x = 5$. Set up an integral that can be used to find the volume of the resulting solid in each case
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<u>10</u>	31 June 5, 2008 The region bounded by the curves $y = 4 - x^2$, $y = 0$ is revolved abut the line $x = 3$. Set up an integral that can be used to find the volume of the resulting solid
<u>11</u>	16 June 6.1996 The region bounded by the graphs of the curves $y = x^2 - 3$ and $y = 5 - x^2$ is revolved about the line $x = 6$. Find the volume of the resulting solid.
<u>12</u>	17 January 8,1997 The region bounded by the graphs of $y - x^2 - 3 = 0$, $y - 3x + 1 = 0$, $x = 0$ and $x = 1$ is revolved about the line $x = -1$, Find the volume of the resulting solid
<u>13</u>	26 June 7, 2003 The region bounded by the graphs of the equations $y = \sqrt{x+2}$, $x = 0$, $y = 0$ and $y = 1$ is revolved about the $x - axis$. Set up an integral that can be used to find the volume of the resulting solid.
<u>14</u>	 32 August 02, 2008 Set up an integral for the volume of the solid obtained when the region bounded by y = x² + 3 and y = 4x is revolved about: a) y - axis, b) y = -1.
<u>15</u>	33 January 20, 2009 The region bounded by the curves $y = \sqrt{x}$ and $y = x^3$ is revolved about : (a) the line $y = 2$, (b) the line $x = 2$. Set up an integral that can be used to find the volume of the resulting solid in each case
<u>16</u>	41 7 January 2012 [3+3 Pts.] Set up an integral for the volume of the solid obtained by rotating the region enclosed by the curves $y = x^2$ and $y = 1$ about each of the lines : (a) $y = -2$ (b) $x = 2$
<u>17</u>	20 January 3,2001 Let <i>R</i> be the region bounded by the graphs of the equation $y = x^2 + 3$, $y = 0$, x = 0 and $x = 2$ Set up an integral that can be used to find the volume of the solid generating by revolving <i>R</i> about the line $x - axis$
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<u>18</u>	28 January 13. 2007 The region bounded by the curves $y = x^2$, $y = 4$ is revolved abut the line $y = -1$.Set up an integral that can be used to find the volume of the resulting solid in each case
<u>19</u>	27 May 30. 2006 The region bounded by the curves $y = \sqrt{x-1}$, $y = 0$, $x = 5$ is revolved abut the line $y = -3$. Set up an integral that can be used to find the volume of the resulting solid in each case
<u>20</u>	19 July 29, 2000 The region bounded by the graphs of the equation $y = x^2$ and $x = y^2$ is revolved abut the line $y = -3$. Find the volume of resulting solid
<u>21</u>	22 August 11.2001 A The region bounded by the graphs of the equation $y = \sqrt{x}$ and $y = x$ is revolved abut the line $y = -1$. Find the volume of resulting solid
<u>22</u>	The region bounded by the graphs of the equation $y = x^3$, $x = 1$ and the $x - axis$ is revolved abut the line $y = -1$ Set up an integral that can be used to find the volume
<u>23</u>	Set up an integral for the volume of the solid obtained when the region bounded by $y = x^2$ and $y = 4x$ is revolved abut $y = -1$.
<u>24</u>	30 Jan. 12. 2008 Find the volume of the solid obtained by rotating the region bounded by the curves of $y = x$ and $y = x^2$ about the line $y = 2$
<u>25</u>	37 June 6, 2010 Set up an integral for the volume of the solid obtained by rotating the region enclosed between the curves $y = x^2$ and $y = x + 2$ about : (a) $x = 7$ (b) $y = -1$
<u>26</u>	 38 January 15, 2011 the region bounded by the curves y = 4x - x² and y = 3 revolved about : (a) the line x = 1 (b) the line y = -1 Set up an integral that can be used to find the volume of the resulting solid in each
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	<u>29</u>	bounded by		y = 1 about:	solid generated e line $x = 5$.	by revolvin	g the regio	on				
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