Left column (textbook):

4. Let V be the volume of the solid obtained by rotating about the y-axis the region bounded by $y = \sqrt{x}$ and $y = x^2$. Find V both by slicing and by cylindrical shells. In both cases draw a diagram to explain your method.

5–14 Use the method of cylindrical shells to find the volume of the solid obtained by rotating the region bounded by the given curves about the x-axis.

5. $xy = 1$, $x = 0$, $y = 1$, $y = 3$

6. $y = \sqrt{x}$, $x = 0$, $y = 2$

7. $y = x^3$, $y = 8$, $x = 0$

8. $x = 4y^2 - y^3$, $x = 0$

9. $x = 1 + (y - 2)^2$, $x = 2$

10. $x + y = 3$, $x = 4 - (y - 1)^2$

15–20 Use the method of cylindrical shells to find the volume generated by rotating the region bounded by the given curves about the specified axis.
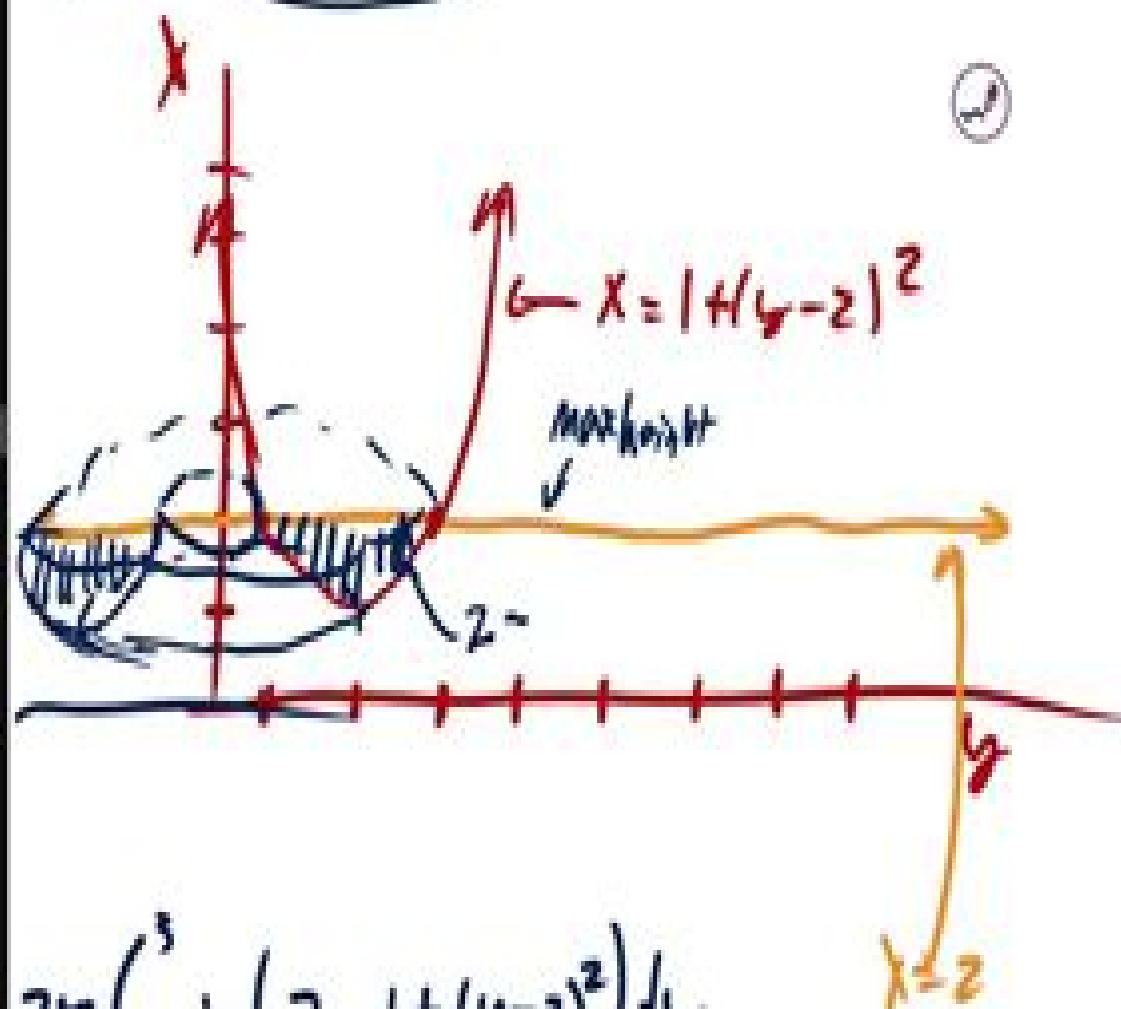
15. $y = x^3$, $y = 0$, $x = 1$; about $x = 2$

16. $y = \sqrt{x}$, $y = 0$, $x = 1$; about $x = -1$

17. $y = 4x - x^2$, $y = 3$; about $x = 1$

18. $y = x^2$, $y = 2 - x^2$; about $x = 1$

19. $y = x^3$, $y = 0$, $x = 1$; about $y = 1$

Right column (handwritten):

13) $x = 1 + (y-2)^2$, $x = 2$

$\leftarrow x = 1 + (y-2)^2$

max height

2

y

$x = 2$

$2\pi \int_1^3 y \left(2 - 1 + (y-2)^2\right) dy$

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Wenbin Ji

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