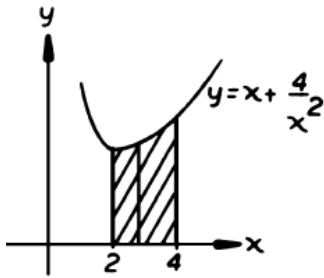
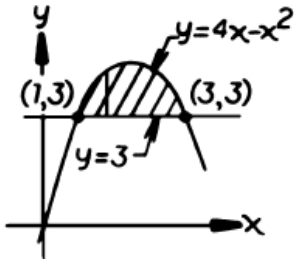


Worksheet for Sections 6.1 – 6.2

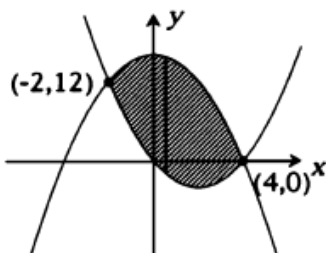
1. Find the area of the region enclosed by $y = x + \frac{4}{x^2}$, the x-axis, $x = 2$, and $x = 4$.



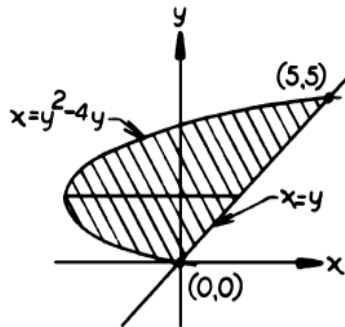
2. Find the area of the region enclosed by $y = 4x - x^2$, and $y = 3$.



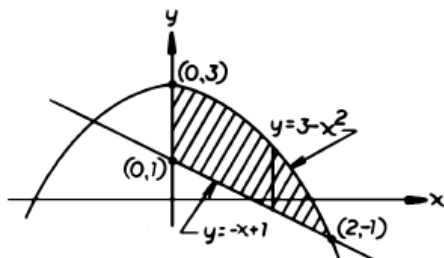
3. Find the area of the region enclosed by $y = x^2 - 4x$ and $y = 16 - x^2$.



4. Find the area of the region enclosed by $x = y^2 - 4y$ and $x = y$.

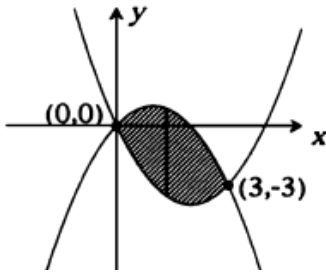


5. Find the area of the region enclosed by $y = 3 - x^2$ and $y = -x + 1$ between $x = 0$ and $x = 2$.

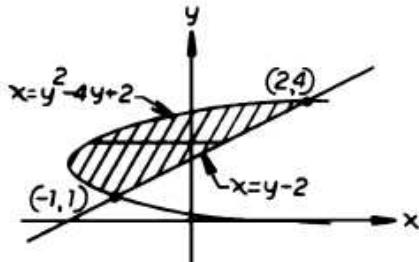


Worksheet for Sections 6.1 – 6.2

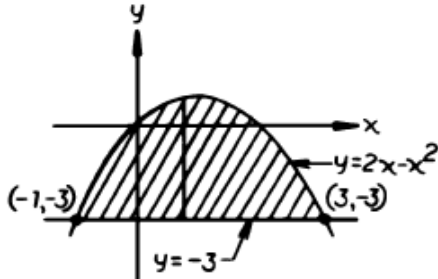
6. Find the area of the region enclosed by $y = x^2 - 4x$ and $y = 2x - x^2$.



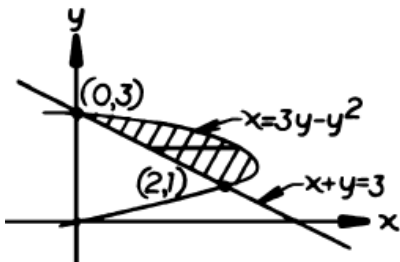
7. Find the area of the region enclosed by $x = y^2 - 4y + 2$ and $x = y - 2$.



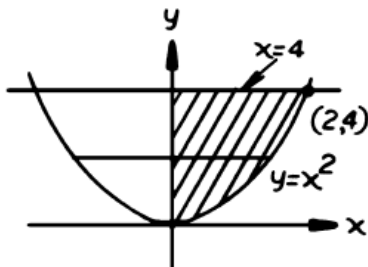
8. Find the area of the region enclosed by $y = 2x - x^2$ and $y = -3$.



9. Find the area of the region enclosed by $x = 3y - y^2$ and $x + y = 3$.

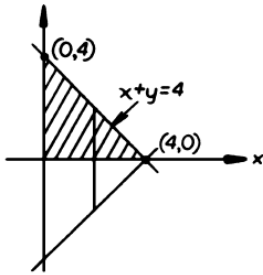


10. Use the disk method to find the volume of the solid that results when the area of the region enclosed by $y = x^2$, $x = 0$, and $y = 4$ is revolved about the y-axis.

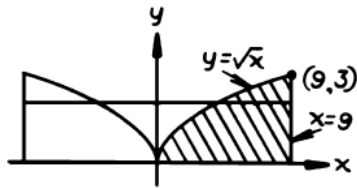


Worksheet for Sections 6.1 – 6.2

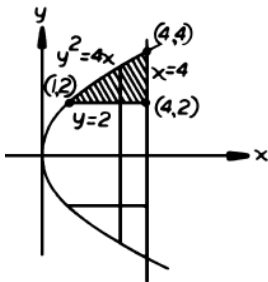
11. Find the volume of the solid that results when the area of the region enclosed by $x + y = 4$, $y = 0$, and $x = 0$ is revolved about the x-axis.



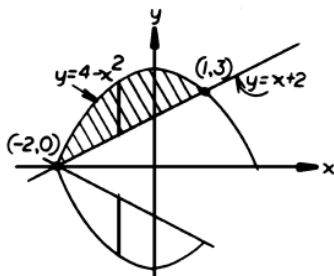
12. Use the washer method to find the volume of the solid that results when the area of the region enclosed by $y = \sqrt{x}$, $y = 0$, and $x = 9$ is revolved about the y-axis.



13. Use the washer method to find the volume of the solid that results when the area of the region enclosed by $y^2 = 4x$, $y = 2$, and $x = 4$ is revolved about the x-axis.



14. Use the washer method to find the volume of the solid that results when the area of the region enclosed by $y = 4 - x^2$, and $y = x + 2$ is revolved about the x-axis.



15. Use the washer method to find the volume of the solid that results when the area of the region enclosed by $y = x^2$, $y = 4$, and $x = 0$ is revolved about the x-axis.

