

Math 111-002
Assignment # 2

1. The region surrounded by the given curves is rotated around the specified axis. Find the volume of the resulting solid (you'll have to decide which method to use).
 - (a) $y = \sqrt{x-1}$, $x = 2$, $x = 5$, $y = 0$, x -axis.
 - (b) $y = x^{2/3}$, $x = 1$, $y = 0$, y -axis.
 - (c) $y = x$, $y = 0$, $x = 2$, $x = 4$, y -axis.
 - (d) $y = (x+1)^2$, $y = 0$, $x = 0$, y -axis.
 - (e) $y = 4x - x^2$, $y = 8x - 2x^2$, y -axis.
 - (f) $y = x^2 - 3x + 2$, $y = 0$, y -axis.