# MAT136H1F – Quiz 2

## TUT0101 – M3 (TA: I. Angelopoulos)

### Fall, 2014

FAMILY NAME: ............................................. GIVEN NAME: .............................................

STUDENT ID: .............................................

Mark your lecture and tutorial sections:

| L0101 (morning) | L5101 (evening) | T0101 (M3) | T0102 (R4) | T5101 (T5) | T5201 (R5) |
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You have 15 minutes to solve the problems. Each problem is worth 2 points. Good luck!

**Consider the region $S$ bounded by the curves $y = \sqrt{x-1}$, $y = 0$, $x = 2$.**

**Question 1.** *Sketch the region $S$ making note of the $x$ and $y$ axes.*

**Let $V$ be the volume of the solid generated by rotating $S$ around the axis $x = 1$.**

**Question 2.** *Write $V$ as an integral.*

**Question 3.** *Calculate $V$.*