

M1B/Schoenbrun Section 6.1 Areas

1) Find the area between x^n and x^{n+1} where $n \in \mathbb{N} = \{1, 2, 3, \dots\}$

2) Find the area between $-x^2 + 5$ and $-x + 3$

3) Find the area in the 1st quadrant between $y = 2x$ and $y = x\sqrt{3x^2 + 1}$

4) Find the area under the function given by the parametric equations $x = \sin t$ and $y = e^t$ on the interval $x \in [0, 1]$