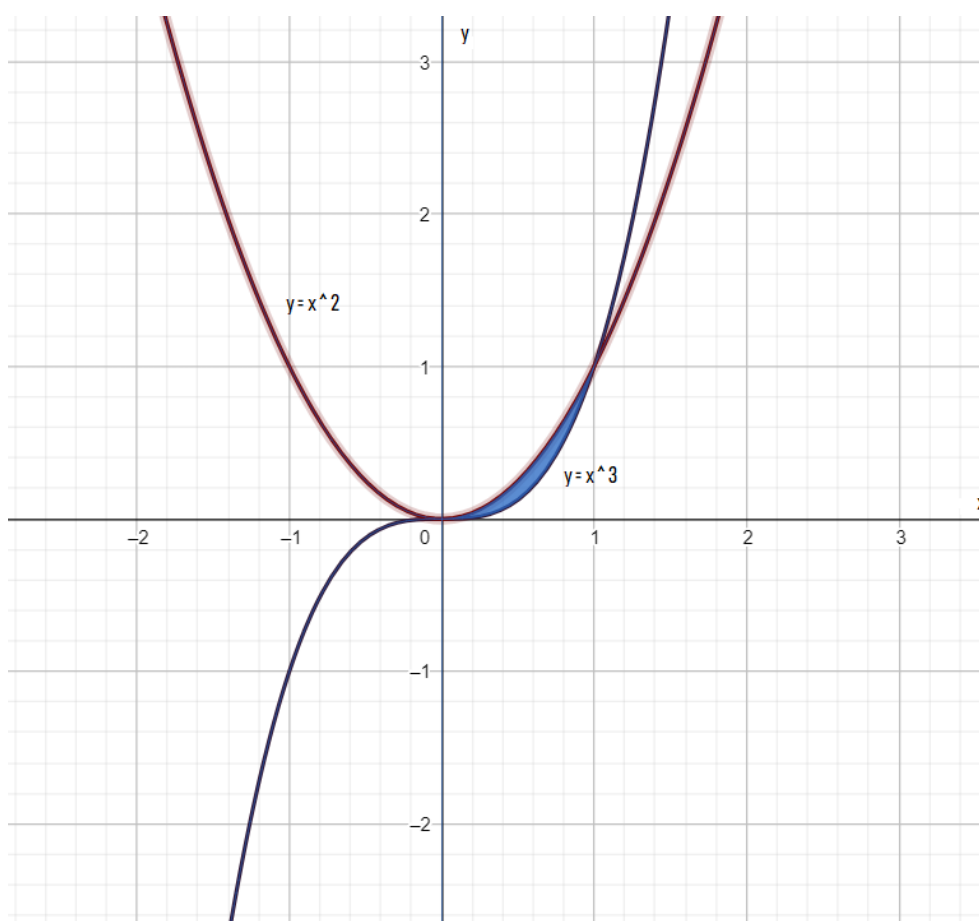


By: Amulya Baniya

Hint:



The region bounded by the curves is highlighted in blue.