



Applications of Integrals

Integrals are powerful tools for solving problems.

7A	Understanding Integrals as Net Change <ul style="list-style-type: none">• Explain the difference between displacement and distance traveled• Calculate net change in a variety of situations	
7B	Understanding Area Between Curves <ul style="list-style-type: none">• Set up integrals that represent the area between curves• Use dx and dy integrals to find areas between curves• Find area between polar curves*	
7C	Understanding Solids of Known Cross Sections <ul style="list-style-type: none">• Find volumes using the disc and washer methods• Find volumes of solids not formed by rotation• Use dx and dy cross sections	
7D*	Understanding Lengths of Curves <ul style="list-style-type: none">• Find lengths of curves over a given domain	