## POW\#30: for Pre-calc and Calc AB.



AMSCO's AP Calc Book page 151 problem \#5

## Part 1: Using geometry

Solve the problem above using geometry skills: i.e Area of 2- triangles and Area of semi-circle.

## Part 2: Using integration and odd and even function properties.

a) Write the piecewise function that represent $f$.
b) If $f$ even or odd? Justify your answer.
c) Find the area under between $f$ and the x -axis using antiderivatives and your answer from part $b$.
http://online.math.uh.edu/HoustonACT/videocalculus/index.html
Watch Videos and make notes: 38, 39, *31, 1, 2, 5, 15, 17, 19, 21, and 22.

