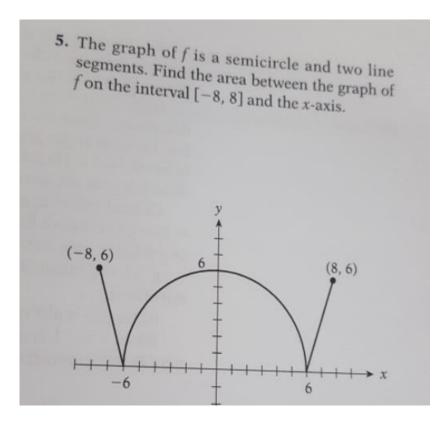
## POW#30: for Pre-calc and Calc AB.



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.