

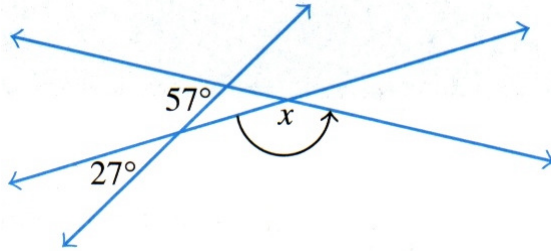
**Math 102
Exam #4
Spring '09**

Show all work (and answers) on the blank paper provided. Write nothing on this paper other than your name.

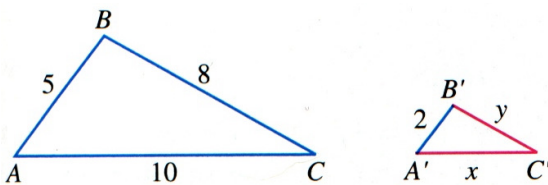
Name: _____

1	10	
2	10	
3	10	
4	10	
5a	10	
5b	10	
6a	10	
6b	10	
7a	10	
7b	10	
total	100	
curve		
%		

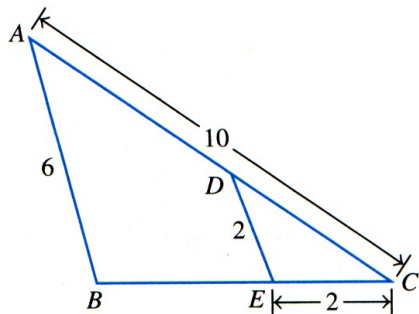
1) Find the measure of $\angle x$ below.



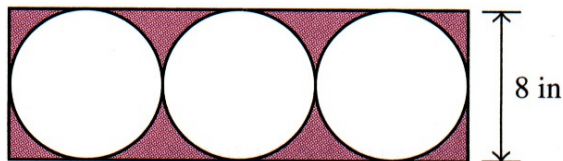
2) The figures below are similar. Find the length of side x and y .



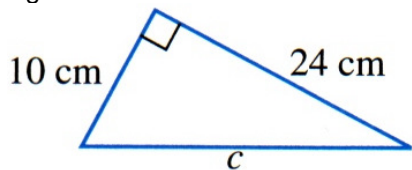
3) Triangles ABC and DEC below are similar figures. Find the length of \overline{BC} and \overline{AD} .



4) Find the shaded area (round to the nearest hundredth).

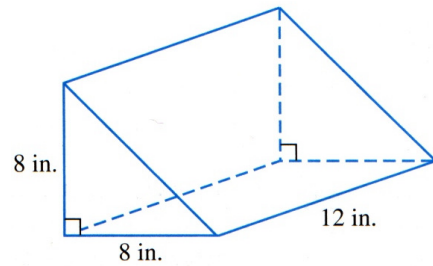


5) a. Use the Pythagorean Theorem to find c .
b. Then find the perimeter and area of the triangle.

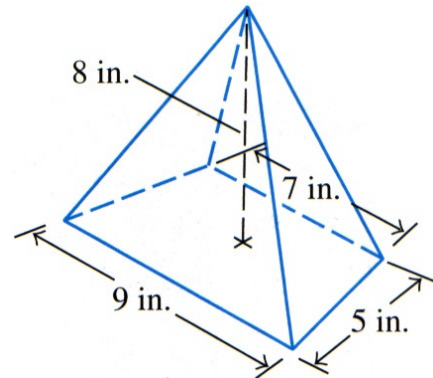


6) Find the volume of the solids.

a.

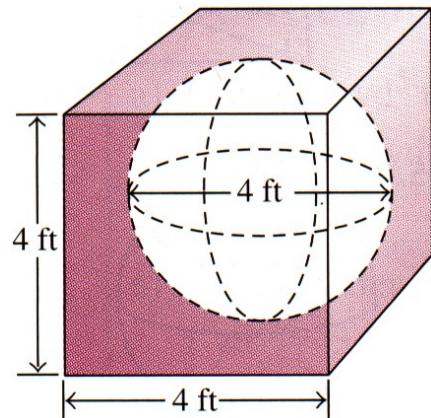


b.



7) Find the volume of the shaded regions (round to the nearest hundredth).

a.



b.

