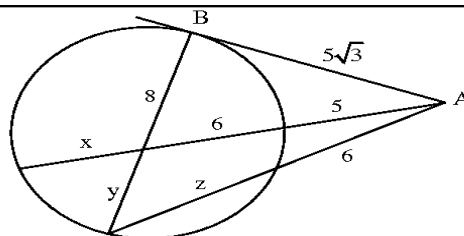**Geo 9**   **Geometry Exam Review Worksheet**   1

(1) Find the area of an equilateral triangle if each side is 8.
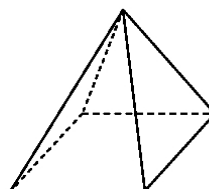
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(2) Given the figure to the right, $\overline{AB}$ is tangent at B, sides as marked, find the values of x , y , and z please.

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(3) Find the length of the arc of a sector of 54° in a circle if the radius is 10. Find the area of the sector.

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(4) The apothem of a regular hexagon is $10\sqrt{3}$. Find the length of each side of the hexagon. Find the area of the hexagon.

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(5) The altitude of a regular pyramid with a square base is 12, and the slant height is 13. Find the volume, LSA and TSA of the pyramid please.
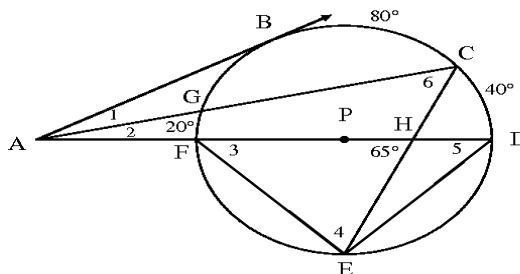

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(6) Given the figure to the right, $\overrightarrow{AB}$ is tangent to the circle at B. $\overline{FD}$ is a diameter, with measures as marked. **Find:**

mBG , mEF , mDE , m∠1 ,

m∠2 , m∠3 , m∠4 , m∠5 , m∠6

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(7) The areas of two similar triangles are 144 and 256. If a side of the smaller triangle is 9, how long is the corresponding side of the larger triangle?