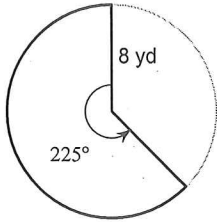


Area Quiz #2 Review

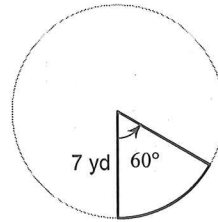
Find the area of each sector.

1)



- A) 23040π yd² B) 16π yd²
 C) $\frac{40\pi}{3}$ yd² *D) 40π yd²

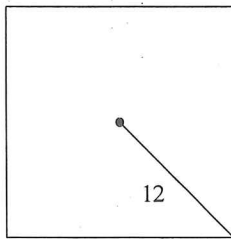
2)



- A) 108π yd² B) $\frac{175\pi}{24}$ yd²
 C) $\frac{39\pi}{8}$ yd² *D) $\frac{49\pi}{6}$ yd²

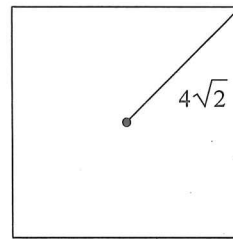
Find the area of each regular polygon. Leave your answer in simplest form.

3)



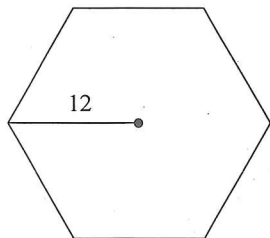
- *A) 288 B) 392
 C) 784 D) 576

4)

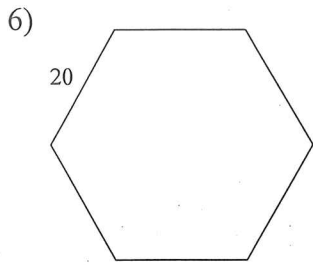


- A) 1350 B) 450
 *C) 64 D) 1024

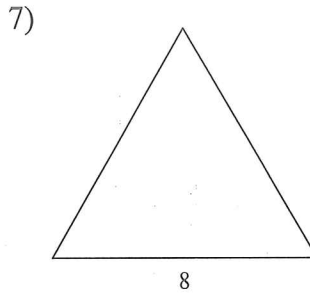
5)



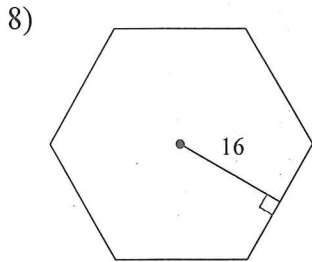
- *A) $216\sqrt{3}$ B) $200\sqrt{3}$
 C) $392\sqrt{3}$ D) $150\sqrt{3}$



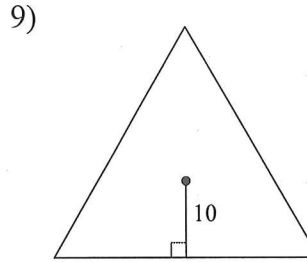
- A) $338\sqrt{3}$ *B) $600\sqrt{3}$
 C) $\frac{363\sqrt{3}}{2}$ D) $96\sqrt{3}$



- A) $64\sqrt{3}$ B) $48\sqrt{3}$
 *C) $16\sqrt{3}$ D) $144\sqrt{3}$

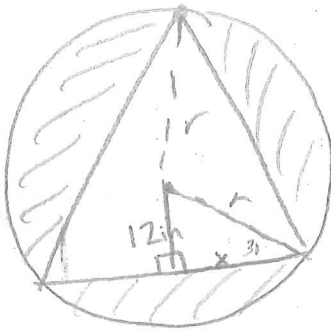


- A) $150\sqrt{3}$ B) $338\sqrt{3}$
 *C) $512\sqrt{3}$ D) $216\sqrt{3}$



- A) $192\sqrt{3}$ *B) $300\sqrt{3}$
 C) $108\sqrt{3}$ D) $36\sqrt{3}$

- 10) Assume that the triangle is regular polygon. Find x , the side length, and the radius of the circle, and the area of the shaded region.



$x = 12\sqrt{3} \text{ in}$ side length = $24\sqrt{3} \text{ in}$
 $r = 24 \text{ in}$

$A_s = \pi 24^2 - 3 \cdot \frac{1}{2} \cdot 24\sqrt{3} \cdot 12$
 $A_s = 576\pi - 432\sqrt{3} \text{ in}^2$
 $A_s \approx 1061.31 \text{ in}^2$