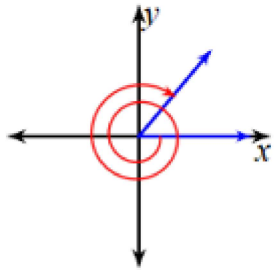


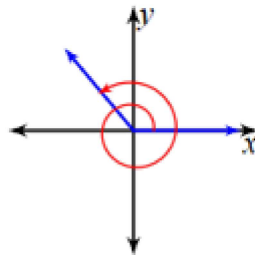




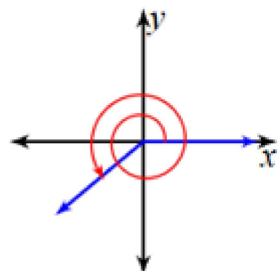
\_\_\_\_ 12. Sketch the angle  $-670^\circ$



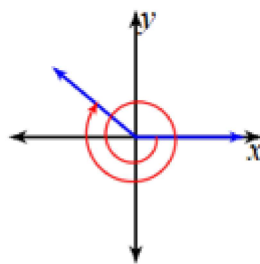
a.



c.



b.



d.

\_\_\_\_ 13. Find the exact value of  $\sin \theta$  if the terminal side of  $\theta$  in standard position contains the point  $(-4, -3)$ .

a.  $-\frac{4}{5}$

c.  $\frac{3}{5}$

b.  $-\frac{3}{5}$

d.  $\frac{4}{5}$

\_\_\_\_ 14. Which angle is coterminal with a  $-400^\circ$  angle in standard position?

a.  $40^\circ$

c.  $320^\circ$

b.  $80^\circ$

d.  $400^\circ$

\_\_\_\_ 15. Find the exact value of  $\cos \theta$  if the terminal side of  $\theta$  in standard position contains the point  $(6, -8)$ .

a.  $-\frac{4}{5}$

c.  $\frac{4}{5}$

b.  $\frac{3}{5}$

d.  $-\frac{3}{5}$

\_\_\_\_ 16. Given  $\cos \theta = \frac{-1}{2}$  and is in Quadrant III, find  $\sin \theta$ .

a.  $\sin \theta = \frac{-\sqrt{3}}{2}$

c.  $\sin \theta = \frac{1}{2}$

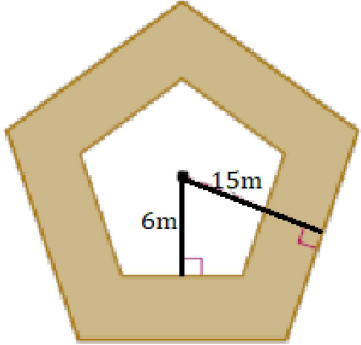
b.  $\sin \theta = \frac{-\sqrt{2}}{2}$

d.  $\sin \theta = 1$

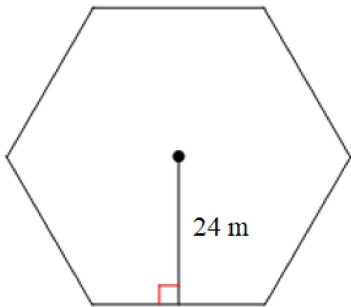
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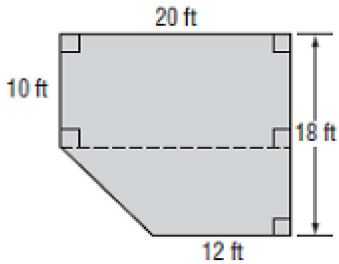
- \_\_\_ 17. Find the area of the shaded region if the apothems of the pentagons are 6 m and 15m. Round to the nearest thousandth.



- a. about 1106.467 m<sup>2</sup>                      d. about 817.350 m<sup>2</sup>  
b. about 686.565 m<sup>2</sup>                      e. None of the above  
c. about 449.374 m<sup>2</sup>
- \_\_\_ 18. Find the area of the regular hexagon if the apothem is 24.

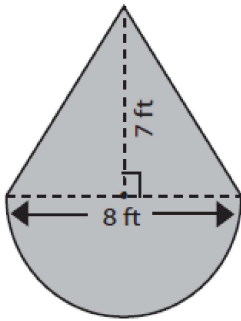


- a.  $6\sqrt{3}$  m<sup>2</sup>                      b.  $576\sqrt{3}$  m<sup>2</sup>                      c.  $192\sqrt{3}$  m<sup>2</sup>                      d.  $1152\sqrt{3}$  m<sup>2</sup>
- \_\_\_ 19. A landscape architect gives the diagram of a yard to a fencing company. What is the area of the yard to be fenced?



- a. 70    c. 328  
b. 264    d. 360

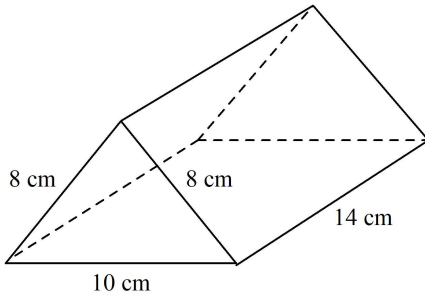
\_\_\_ 20. Find the area of the half circle and triangle composite figure.



- a.  $8\pi + 28 \text{ ft}^2$
- b.  $32\pi + 56 \text{ ft}^2$
- c.  $8\pi + 7 \text{ ft}^2$
- d.  $49\pi + 28 \text{ ft}^2$

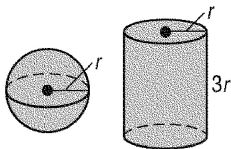
*Find the volume of the prism. Round to the nearest tenth if necessary.*

\_\_\_ 21.



- a.  $1120.0 \text{ cm}^3$
- b.  $560.0 \text{ cm}^3$
- c.  $660.4 \text{ cm}^3$
- d.  $437.1 \text{ cm}^3$

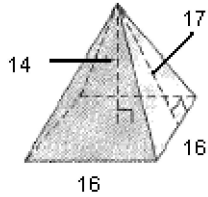
\_\_\_ 22. Which solid has the greater volume?



- a. sphere
- b. cylinder
- c. The volumes are equal.
- d. not enough information

Find the surface area of the solid.

\_\_\_\_\_ 23.

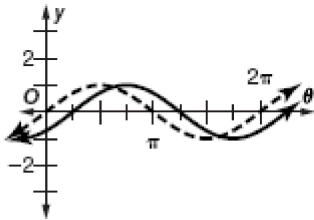


- a.  $800 \text{ units}^2$
- b.  $392 \text{ units}^2$
- c.  $704 \text{ units}^2$
- d.  $288 \text{ units}^2$

\_\_\_\_\_ 24. Find the amplitude of  $y = 6 \sin \theta$ .

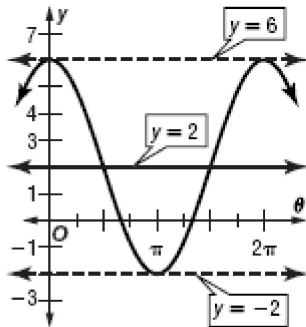
- a. 6
- b.  $\pi$
- c. -6
- d.  $2\pi$

\_\_\_\_\_ 25. Which equation is graphed?



- a.  $y = \sin(\theta - \frac{\pi}{4})$
- b.  $y = \sin(\theta + \frac{\pi}{4})$
- c.  $y = \cos(\theta - \frac{\pi}{4})$
- d.  $y = \cos(\theta + \frac{\pi}{4})$

\_\_\_\_\_ 26. Which equation is graphed?

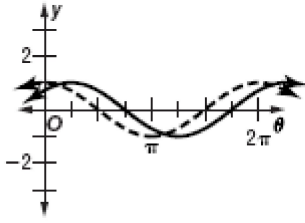


- a.  $y = 4 \sin \theta + 2$
- b.  $y = 4 \sin \theta - 2$
- c.  $y = 4 \cos \theta + 2$
- d.  $y = 4 \cos \theta - 2$

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\_\_\_\_ 27. Which equation is graphed?



a.  $y = \sin\left(\theta - \frac{\pi}{4}\right)$

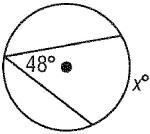
c.  $y = \sin\left(\theta + \frac{\pi}{4}\right)$

b.  $y = \cos\left(\theta - \frac{\pi}{4}\right)$

d.  $y = \cos\left(\theta + \frac{\pi}{4}\right)$

**Short Answer**

28. Find  $x$ .



**Acc Final Exam Practice 2021  
Answer Section**

**MULTIPLE CHOICE**

1. D
2. C
3. A
4. A
5. C
6. D
7. D
8. C
9. B
10. A
11. A
12. A
13. B
14. C
15. B
16. A
17. B
18. D
19. C
20. A
21. D
22. B
23. A
24. A
25. A
26. C
27. B

**SHORT ANSWER**

28. 96