

14. If the height of an equilateral triangle is 9, what is its area?

(F) 27
(G) 54
(H) 81
(J) $27\sqrt{3}$
(K) $54\sqrt{3}$

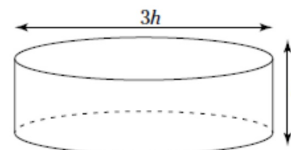
26. If $\tan \theta = \frac{4}{3}$, then $\sin \theta =$

(F) $\frac{3}{4}$
(G) $\frac{3}{5}$
(H) $\frac{4}{5}$
(J) $\frac{5}{3}$
(K) $\frac{5}{4}$

48. On the xy -plane, what is the area of a circle with this equation: $(x + 3)^2 + (y - 4)^2 = 49$?

(F) 5π
(G) 7π
(H) 25π
(J) 49π
(K) 125π

50. The following figure shows a cylindrical tank whose diameter is 3 times the length of its height. The tank holds approximately 231.5 cubic meters of fluid. Which of the following answer choices most closely approximates the height of the tank?



(F) 2 meters
(G) 3 meters
(H) 4 meters
(J) 5 meters
(K) 6 meters