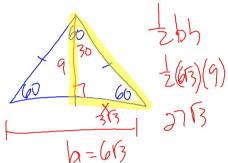
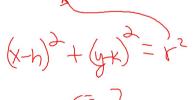
Bellwork Thursday, February 27, 2014

- 14. If the height of an equilateral triangle is 9, what is its area?
 - (F) 27
 - (G) 54
 - (H) 81
 - (J) 27√3
 - (K) 54√3



- 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) 49 π
 - (K) 125π



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



(G) $\frac{3}{5}$



(J) $\frac{5}{3}$

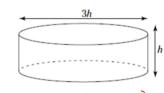
(K) $\frac{5}{4}$

Sin = opp 4

Sin = hyp

3

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



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