## Bellwork Monday, February 3, 2014

- 1. I have a rectanglular prism with sides 2, 6, and x. If the volume is at most 100 cm<sup>3</sup>, and the longest side of the rectangular prism must be a prime number, what is the largest value for x?
  - A. 5
- B. 7
- C. 8
- D. 9
- E. 11

- 3. Find the slope of a line with an x-intercept of 6 and passes through (12, 12)
- A. -2
- B. -1/2
- C. 1
- D. 1/2
- E. 2

- 2. Find the coordinates of a point that is on the line y=8 and is equidistant from (2,6) and (7,6)A. (6,8)
- B. (8,6)
- C. (4.5, 8)
- D. (4,8)
- E. (8,9)

- 4. The area of a triangle is 30 and it has an altitude of 6. If you use the base of the triangle as a diameter for drawing a semicircle, what would the area of the semicircle be to the nearest tenth?
- A. 19.6
- B. 24.7
- C. 39.3
- D. 51.5
- E. 78.5