Problems of the Week # 1

Name:

Date:_____

- 1. The expression -[x-3(2x-1)+2] is equivalent to which expression listed below?
 - A. $6x^2 + 1$ B. 5x 3 C. 5x 5 D. 5x + 1 E. -6x + 1
- 2. Simplify. Use positive exponents in the answer: $\left(\frac{3p^4v^{-2}}{s^4}\right)^{-2}$

A.
$$\frac{3p^8v^4}{s^6}$$
 B. $\frac{-9s^8v^4}{p^8}$ C. $\frac{3p^8v^4}{s^8}$ D. $\frac{s^8v^4}{9p^8}$ E. $\frac{s^8}{9p^8v^4}$

- 3. Solve. $-42x 42 \le -6(6x + 3)$ A. $x \le -4$ B. x > -4 C. $x \ge -4$ D. x < -4 E. $x \ge 4$
- 4. If the coordinates of one endpoint of a line segment are (2,6) and the midpoint of the segment is (-3,6), what are the coordinates of the other endpoint of the segment?

A.
$$(-8,6)$$
 B. $(7,6)$ C. $(2,1)$ D. $\left(-\frac{1}{2},6\right)$ E. 5

5. A rectangle has a length that is 9 feet longer than it is wide. If the area of the rectangle is 90 square feet, find the length.

A. 6 ft B. 10 ft C. 14 ft D. 15 ft E. 18 ft