Addition of Polynominals
02/29/2012

Student Name: _____

Class: _____

Date: _____

Instructions: **Read each question carefully and select the correct answer.**

1. Add.

$\left(^{-}4x^2 - 8x - 1\right) + \left(9 + 4x - 6x^2\right)$

A. $^{-}10x^4 - 4x^2 + 8$

B. $^{-}10x^2 - 4x + 8$

C. $^{-}2\left(5x^4 + 2x^2 - 4\right)$

D. $^{-}2\left(5x^3 + 2x - 4\right)$

2. Solve for a, b, and c.

$\left(8x^2 - ax - 6\right) + \left(bx^2 + 15x + c\right) = \left(^{-}13x^2 + 4x - 19\right)$

A. a = 11, b = -21, c = -13
B. a =-11, b = -21 , c= 13
C. a = 19, b = -5, c = -25
D. a = -5, b = 19, c = -25

3. At Masterson Department Store, they issue prices for their clothing using polynomials and the variable x. The following is a sample listing of their prices.

Shirts = $\$4x + 9$	Pants = $\$3x^2 + 2$
Dresses = $\$9x - 20$	Shoes = $\$6x$

If Heather wants to buy three pairs of pants, one pair of shoes, and two dresses, how much will her total bill be?

A. $\$33x^3 - 34$

B. $\$9x^2 + 24x - 34$

C. $\$3x^2 + 15x - 18$

D. $\$9x^2 + 24x - 46$

4. Simplify.

$4(a - 5) + 2(-2a - 7)$

A. -34
B. $8a - 34$
C. $8a - 6$
D. -6