Review for Sections 2.4 and 2.5

Example One

Simplify the following.

a) $(3x^2 + 5x) + (7x^2 - 20x)$

Remember the rule.

1. $3x^2 + 5x + 7x^2 - 20x$
2. $10x^2 + -15x$ or $10x^2 - 15x$

b) $(17x^3 + 35x^2 - 17x + 9) - (20x^3 - 19x^2 + 11x - 8)$

↳ add the opposite.

1. $(17x^3 + 35x^2 - 17x + 9) + (-20x^3 + 19x^2 - 11x + 8)$
2. $-3x^3 + 54x^2 - 28x + 17$

c) $3x^2(x^4 - 5x^3 + 2x^2 - 7)$

$x^4(3x^2) - 5x^3(3x^2) + 2x^2(3x^2) - 7(3x^2)$

$= 3x^6 - 15x^5 + 6x^4 - 21x^2$

x^6 = cherries x^4 = pies

x^5 = bananas x^2 = cheeseburgers

Complete all of the questions on the review sheet.