1. **(4 points)** Dried pears sell for \$5.50 per pound and dried apricots sell for \$6.25 per pound. If x is the number of pounds of dried pears in a 15-pound mixture of dried pears and apricots, give an expression for the value of the mixture in dollars.

2. **(6 points)** Yorick drives west from his home at an even pace of 60 miles per hour. His housemate Zenobia starts driving west from the same place half an hour later. If she drives at 80 miles per hour, how long will it take her to catch him?

3. **(2 points)** Calculate the sum of complex numbers $(3 - 5i) + (-1 + 7i)$.

4. **(3 points)** Calculate the product of complex numbers $(3 - 5i)(-1 + 7i)$.

Wednesday, September 8, 2010