



AAC - Business Mathematics I
Problem set #2, Due March 27, 2010

1. Solve:

(a) $x^2 - 3x + 2 = 0$

(b) $x^2 - 2x - 8 = 0$

(c) $3x^2 - 12 = 0$

(d) $(x - 2)(x + 5) = 0$

2. Solve the following inequalities:

(a) $2x - 3 < x + 1 \leq 6$

(b) $-x^2 + 3x + 10 > 0$

(c) $x^2 - 6x + 12 > 0$

(d) $\frac{1 - x}{2 - 2x} > 1$

3. Sally solves 4 mathematical problems per hour. How many hours did she work if we know that she solved either at most 48 or at least 72 problems?

4. Greg consumes cheese and wine. Two weeks ago he spent all his pocket money on wine and he enjoyed 8 bottles. Last week he split the money and got 4 bottles of wine and 7 packages of cheese. His weekly income is 560CZK. What is the price of wine and price of cheese?