MATH 3/4: ASSIGNMENT 13

APRIL 25, 2010

Classwork

1. Solve the following equations:
(a) $2(x+7)=30$
(b) $5(x+1)+5=40$
(c) $3(x+3)+2x=29$
(d) $8x+3(2x-7)=7$
(e) $7(8x+10)=126$

2. Now Mary is 8 years old, and her mother is 4 times older than her. In now many years her mother will be 3 times older than Mary? In how may years her mother will be 2 times older?

3. With all his money Bill can buy 10 notebooks. If a notebook were one dollar cheaper as it is now, he would be able to buy 12 notebooks. How much does the notebook cost?

Homework

1. Solve the following equations:
(a) $3(x+5)=24$
(b) $2(x+3)+2x=30\text{v}$
(c) $7x+4(x-1)=18$
(d) $3x+5(2x+4)=59$
(e) $4(6x-7)=20$
(f) $3(x+3)+1=2(x+8)+10$

2. With all his money Sam can buy 8 pens. If a pen costs one dollar less, Sam would be able to buy 12 pens. How much does a pen cost now?

3. The books on mathematics are 4 times more expensive than the books on English. Mary can buy 3 books on mathematics and have 4 dollars left, or 10 books on English and have 10 dollars left. What is the price of the book on Mathematics? And on English?

4. Now Jessica is 12 years old, and her mother is 3 times older than her. In how many years her mother will be 2 times older than Jessica? How many years ago her mother was 4 times older than Jessica?

5. Susan comes to the store to buy oil and vinegar for the salad dressing for a huge party. A bottle of oil is four times as expensive as a bottle of vinegar. If Susan decides to buy 2 bottles of oil and 3 bottles of vinegar, she will have 8 dollars left. If she decides to buy 4 bottles of oil and 2 bottles of vinegar, she will need 6 extra dollars. How much money will she have left, if she just decides to buy 1 bottle of oil and 1 bottle of vinegar?