Applications of Linear Systems: Geometry/Money Problems

Assigned Work:

- p. 40 #17
- p. 55 #9

plus:

Erik has \$4.80 in nickels and quarters. If he has 6 more nickels than quarters, how many of each does he have?

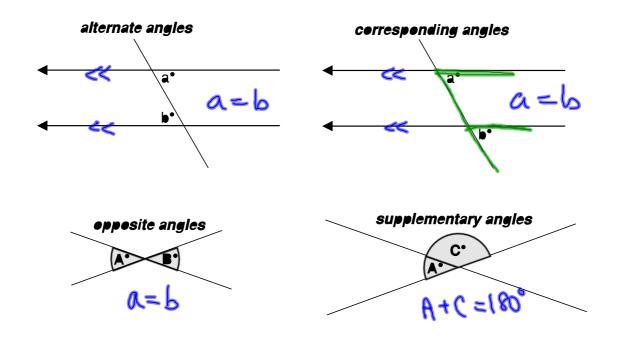
Review for Test:

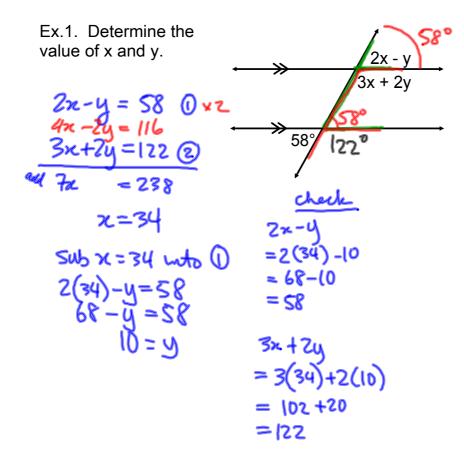
p. 62 #5a, 6, 7bc, 9, 12acd, 13, 14, 16, 17, 18

Applications of Linear Systems: Geometry/Money Problems

Feb 17/2011

Recall:





Ex. 2) The coin box of a vending machine contains half as many quarters as dimes. If the total value of the coins is \$22.50, how many dimes are there?

Let
$$x$$
 be the $\#$ and demonshed y be the $\#$ and y and y and y and y and y and y are the $\#$ and $\#$ a

Ex. 3) A rectangle with a perimeter of 180 cm is four times longer than it is wide. What are the dimensions of the rectangle?

$$y = 42$$
 ①

 $2x + 7y = 180$ ②

Let x be width

 y length

Sub 0 into ②

 $2x + 2(4x) = 180$
 $10x = 180$
 $x = 18$
 $y = 72$

The width is 18 cm

and the length is 72 cm

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