

Old MacDonald's Last Wishes...

Old MacDonald had 17 cows. He died. His will said...

The first daughter Malia gets 1/2 of the cows.

The second daughter Lainey gets 1/3 of the cows.

The third daughter Janna gets 1/9 of the cows.

The daughters could not figure out how to divide the cows.

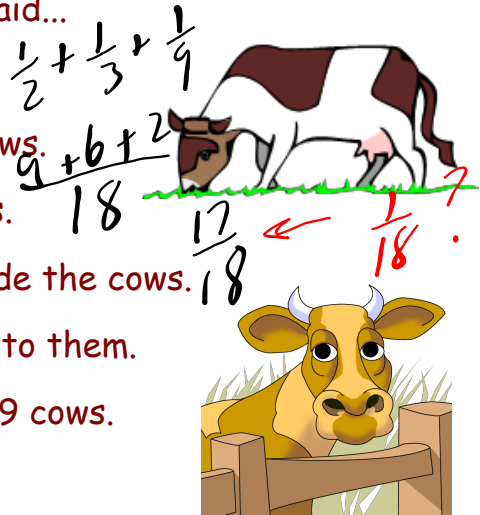
Mr. Hallihan wanted to help so he loaned a cow to them.

Then the first daughter took 1/2 of 18 cows = 9 cows.

The second daughter took 1/3 of 18 or 6 cows.

The third daughter took 1/9 of 18 or 2 cows.

That makes 9 + 6 + 2 = 17 cows. So Mr. Hallihan took his cow back home.



Explain???

```
.0065359477
(9/17-1/2)+(6/17
-1/3)+(2/17-1/9)
Ans*Frac
.0555555556
1/18
```

extra from the loan cow

Mr. Svarc's Missing \$ Problem...REALLY???

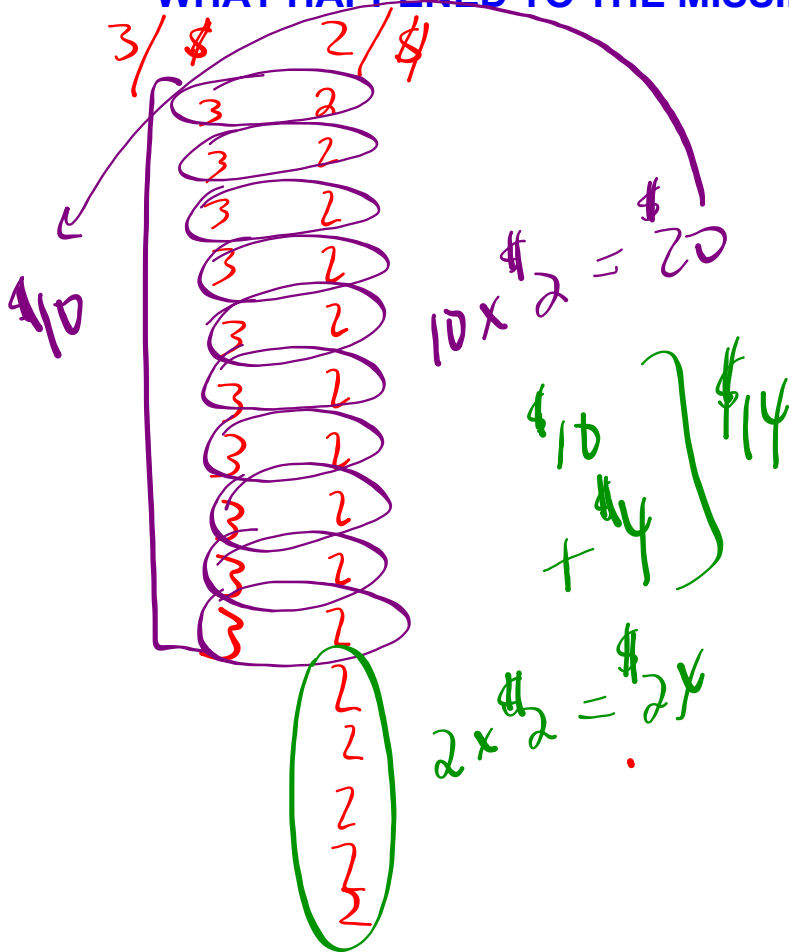
Two men were selling Atlantic Salmon Flies: one man sold 3 flies per dollar and the other man sold 2 flies per dollar.

One day they were both away so they each left 30 flies with a friend. To simplify the reckoning, the friend decided to sell 5 flies for 2 dollars. They sold them all and took in 24 dollars.

When it came to dividing up the sales between the owners...a problem arose. The one who had 30 flies at 3 for a dollar wanted \$10. The other who had 30 flies at 2 for a dollar wanted \$15. In total this made \$25.

The friend only made \$24 which means that they are a dollar short.

WHAT HAPPENED TO THE MISSING DOLLAR???



Notes - Geometry Theorems.doc

*** Now that the notes are taken care of...

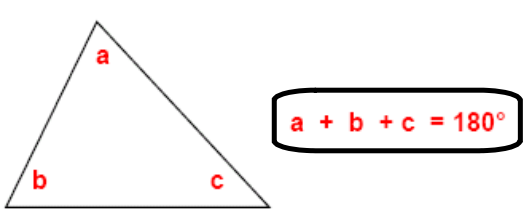
REVIEW??? GMF 10 - Angle Properties

We better do some examples to UNDERSTAND these **BIG** ideas!!!

Geometry Theorems...

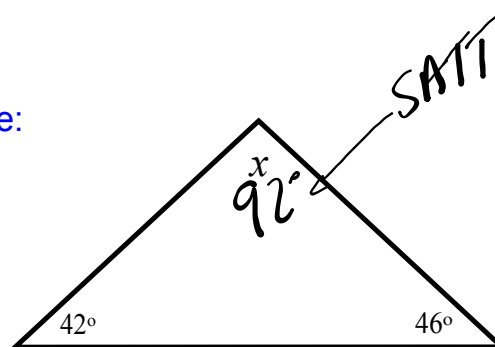
Triangle Angle Sum Theorem:

The sum of the interior angles of any triangle is 180° .



$a + b + c = 180^\circ$

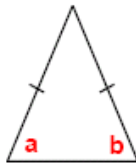
Example:



Isosceles Triangle Theorem:

In an isosceles triangle, the base angles are equal.

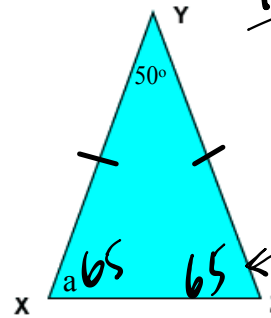
The two angles that are opposite to the equal sides.



$a = b$

EXAMPLES...

1)



$\frac{180 - 50}{2}$
 65

2)



ITT
SATI

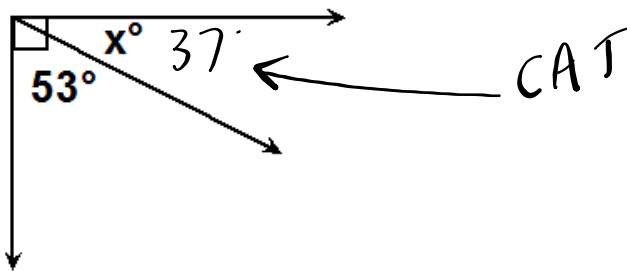
- **Complementary Angles:**

Two or more angles that have a sum of 90° .

Examples:

(1) What is the complement of a 50° angle? 40°

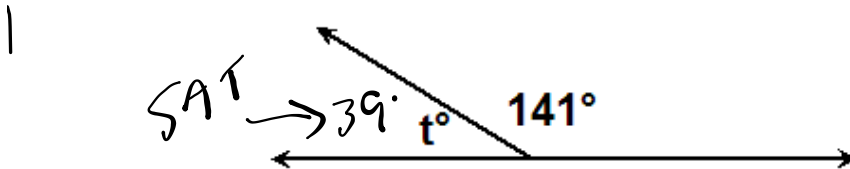
(2) Determine the measure of the missing angle.



- **Supplementary Angles:**

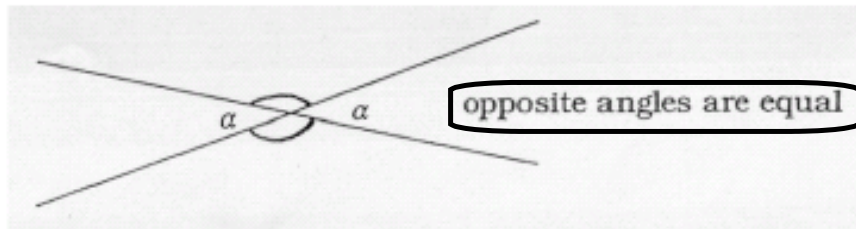
Two or more angles that have a sum of 180° .

Examples:



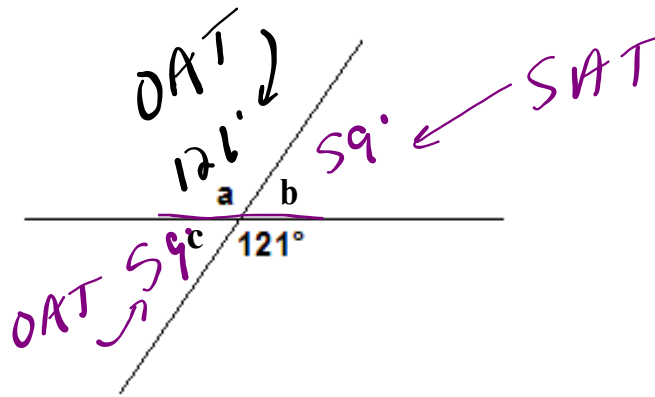
Opposite Angle Theorem...

When 2 straight lines cross, 2 pairs of opposite angles are formed. Opposite angles are equal in size

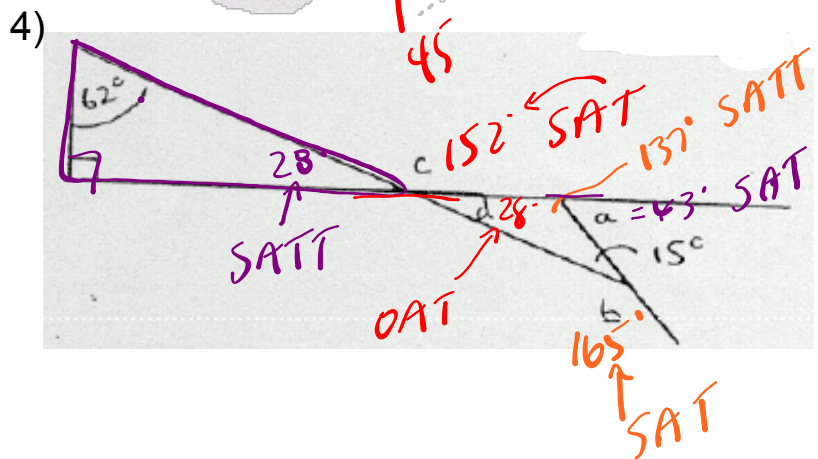
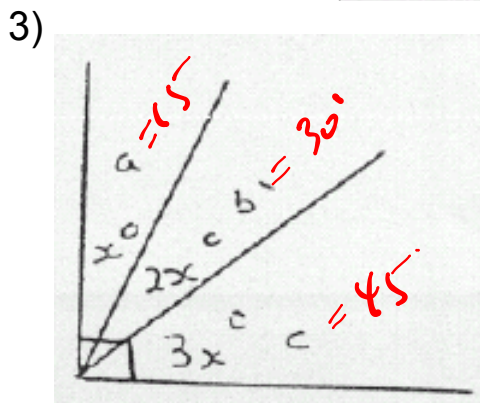
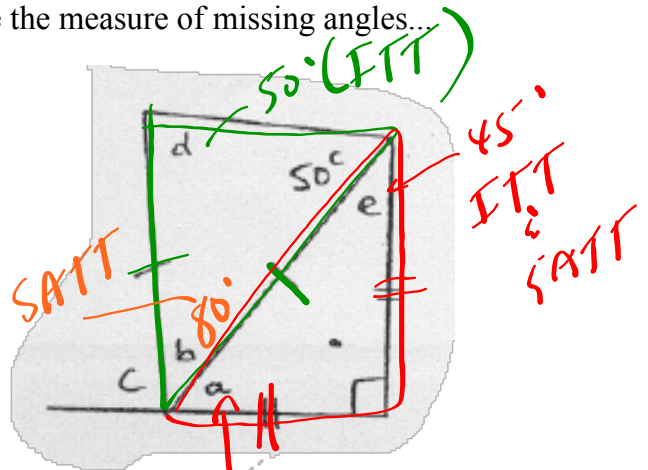
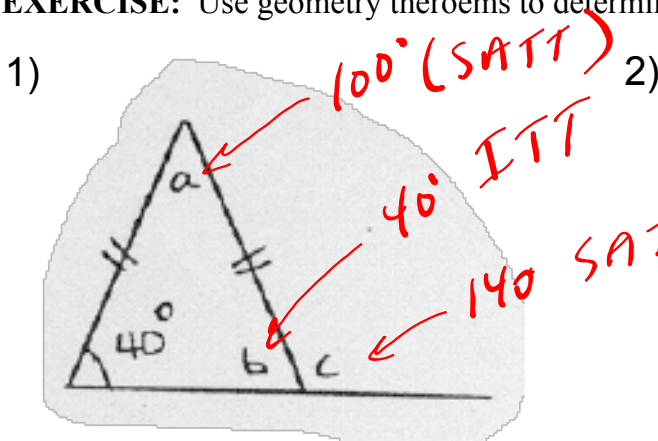


In geometry, angles or lines marked with the same symbol are the same size.

Example:



EXERCISE: Use geometry theorems to determine the measure of missing angles...



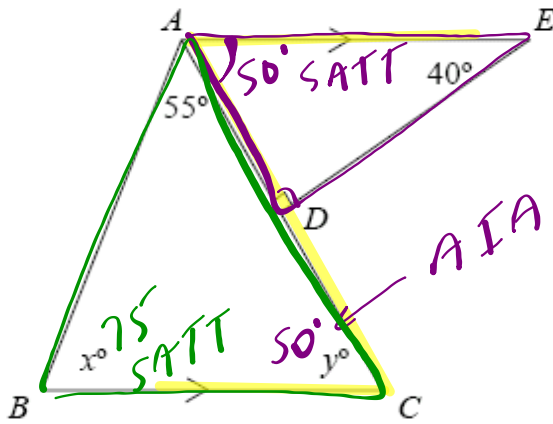
$$x + 2x + 3x = 6x$$

$$\frac{6x}{6} = \frac{90}{6}$$

$$x = 15$$

← CAT

C)



AIA Find x° and y° .

$$4x - 24 = 108$$

$$4x = 108 + 24$$

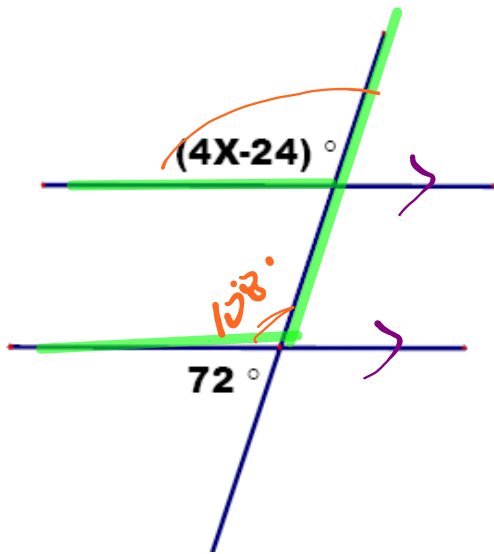
$$4x = 132$$

$$\frac{4x}{4} = \frac{132}{4}$$

CA

$x = 33^\circ$

D)



Homework...

p. 72: #2

p. 78: #1, 4, 15

Revisit
Friday's
Sheet

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Attachments

Notes - Geometry Theorems.doc