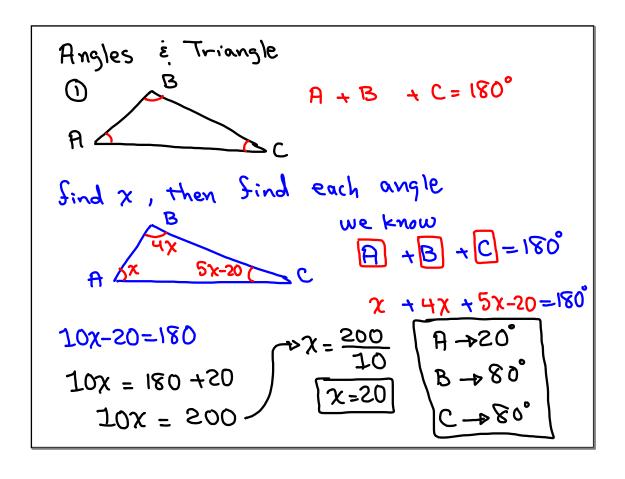
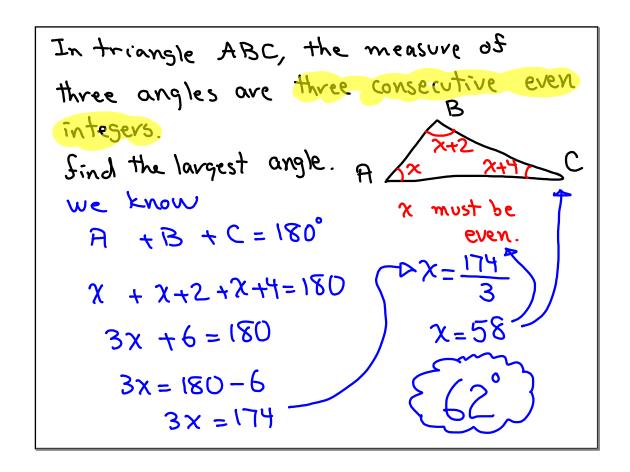
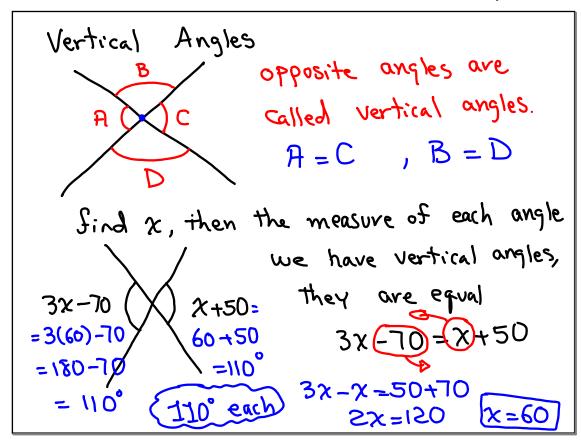
Math 107
Fall 2017
Lecture 8

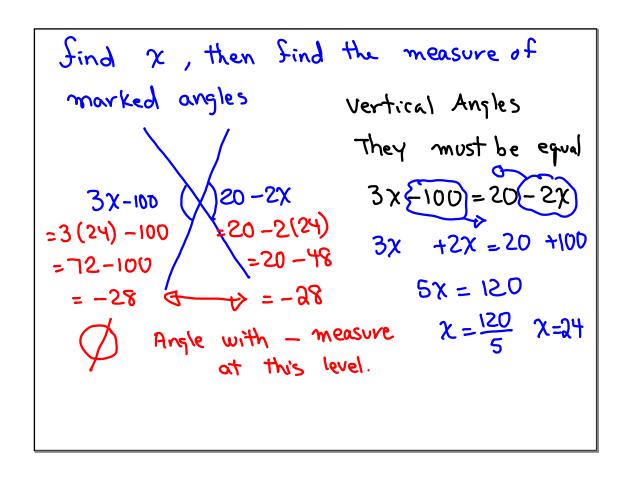




In triangle ABC, Angle B is 30° more than angle A. Angle C is 3 times angle A. Draw & label Such triangle Find the measure of all three angles we know χ_{+30} χ_{+30} χ_{+30} χ_{-180} χ_{-180}







Complementary angles => Their sum is 90°

Type | Angle | Complement

Complementary |
$$\chi$$
 | 90- χ
 $R = \chi$
 $R = \chi$

Sind two complementary angles such that

one of them is 4 times the other one

$$x = 4.90 - x$$

$$x = 4.90 - 4.x$$

$$x = 360 - 4x$$

$$x + 4x = 360$$

$$5x = 360$$

Find two complementary angles such that

the sum of 3 times one of them

and 4 times the other one is equal to 35

$$\chi \notin 90-\chi$$
 $3\cdot\chi$
 $+4(90-\chi)=135$
 $-\chi=-225$
 $-\chi=-360$
 $-\chi=-225$
 $\chi=\frac{-225}{-1}$
 $\chi=225$

Supplementary angles: Their sum is
$$180^{\circ}$$

A + B = 180°

Angle Supplement

 χ
 $180-\chi$

Find two supplementary angles
$$\chi \not\in 180-x$$

such that the sum of
one of them and twice the other one
is 260. $\chi + 2(180-x) = 260$
 $\chi = 100 \Rightarrow \chi + 360 - 2\chi = 260$
 $\chi + 360 = 260$