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In triangle ABC, angle A is 10° more than angle B.

Angle C is 10° less than 3 times angle A.

1) Draw \varepsilon label such triangle \varepsilon 3(x+10)-10

2) find all three angles. A x+10 \varepsilon C

A + B + C=180° \varepsilon 5x=180-30

\varepsilon x+10+x+3x+30+0=180° \varepsilon 30°,40°,110°

\varepsilon 30°,40°,110°
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Two angles are complementary. Sum = 90°

One of them is twice the other one.

Angle | Complement
$$x = 2(90-x)$$
 $x = 2(90-x)$
 $x = 180 = 2x$
 $x = 180$
 $x = 180$
 $x = 180$

$$90(-x) = 2x$$

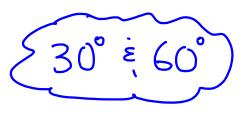
$$90 = 2x + x$$

$$90 = 3x$$

$$90 = 3x$$

$$90 = x$$

$$30 = x$$



Two angles are complementary. Sum = 90°

The Sum of 3 times one of them

and 4 times the other one is 345°

Angle | Comp.

Angle | Comp. x = 345 x = 345

Find two complementary angles such that

the difference of 5 times one of them

and twice the other one is 310°.

Two comp. angles
$$\Rightarrow \chi \stackrel{?}{=} 90-\chi$$
 $5\chi = 310^{\circ} + 180$
 $7\chi = 490$
 $\chi = 70$

Sind two supplementary angles such that

one of them is 20° more than the
other one.

Angle other angle

$$X = 180 - X + 20$$
 $X = 180 - X + 20$
 $X + X = 200$
 $X = 200$
 $X = 100$

Find two supplementary angles such that

the difference of 4 times one of them

and the other one is 195°.

Two supplementary angles
$$\Rightarrow x = 180-x$$
 $4x - (180-x) = 195$
 $5x - 180 = 195$
 $5x - 195 + 180$
 $5x = 195 + 180$

Difference of
$$A$$
 and B $A-B$

Difference of A times one of them and

The other one

 $A = B$
 $A = B$

Difference of $A = B$

A = B

Difference of $A = B$

The other one

 $A = B$

A = B

Difference of $A = B$

The other one

 $A = B$

The oth

