Equations with the variable on both sides

B, C

① $4x - 185 = 76 - 5x$

A

② $-2x - 23 = 28 + x$

A

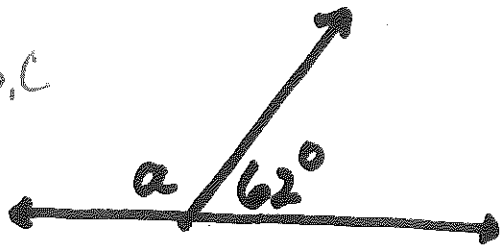
③ $-3x - 41 = x + 75$

A

④ $-106 - 6x = 3x + 74$

A, B, C

(5)

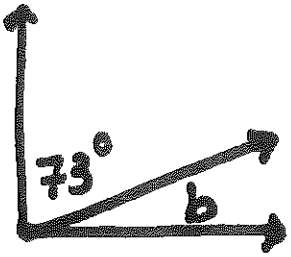


How many degrees is angle a?
Write an equation & then solve it.

These angles are called _____.

A, B, C

(6)

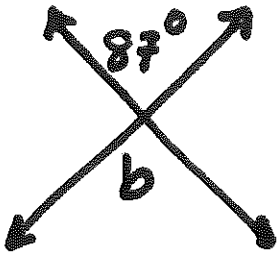


How many degrees is angle b?
Write an equation & then solve it.

These angles are called _____.

A, B, C

(7)



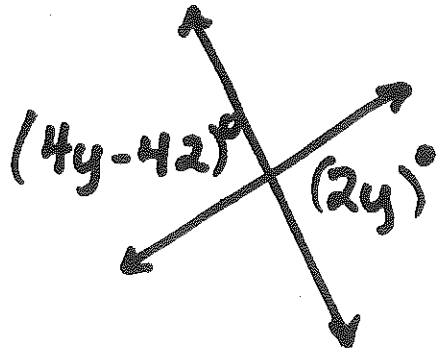
How many degrees is angle b?
Why?

These angles are called

_____.

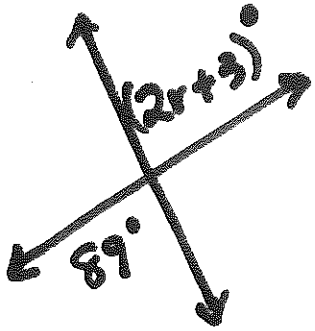
B,C

⑧ Find y and then tell the measures of each angle.



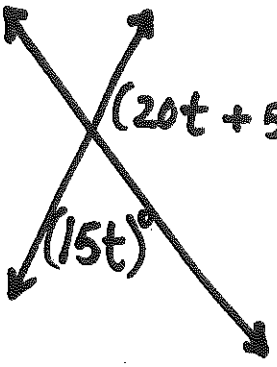
A,B,C

⑨ Find r and then tell the measures of each angle.

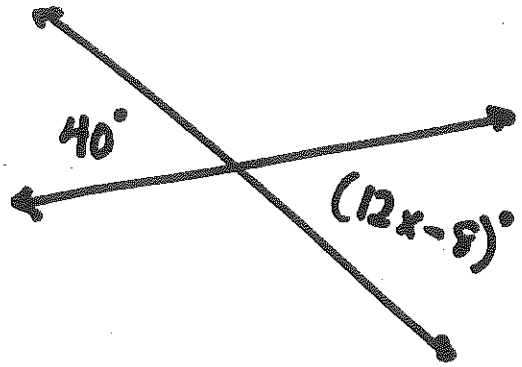


A,B,C

⑩ Find t and then tell the measures of each angle.

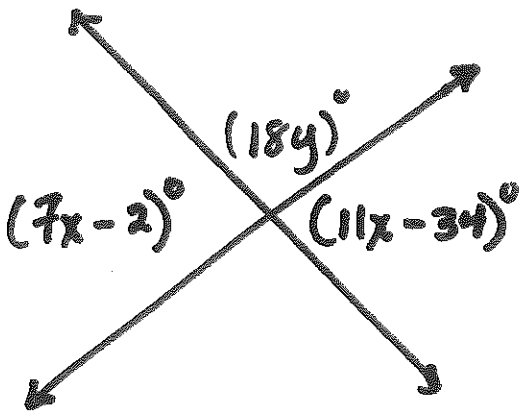


(11) A



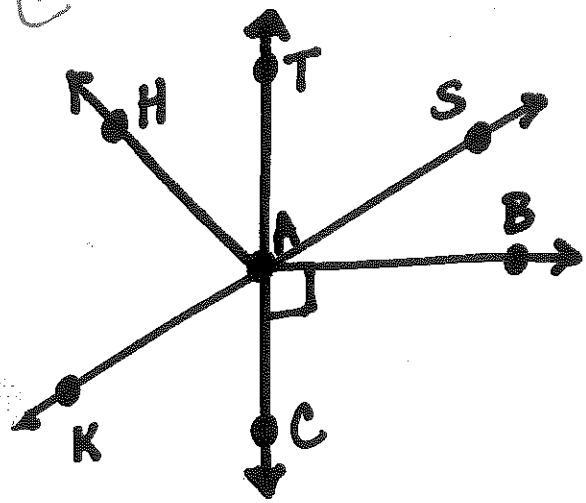
Find the value of x. Then tell how many degrees each angle is.

(12) C



Find the values of x and y. Tell how many degrees each angle is.

(13) C



a) ∠HAK and ∠ ____ are supplementary angles.

b) ∠SAT and ∠ ____ are supplementary angles.

c) ∠TAS and ∠ ____ are complementary angles.

A, B, C

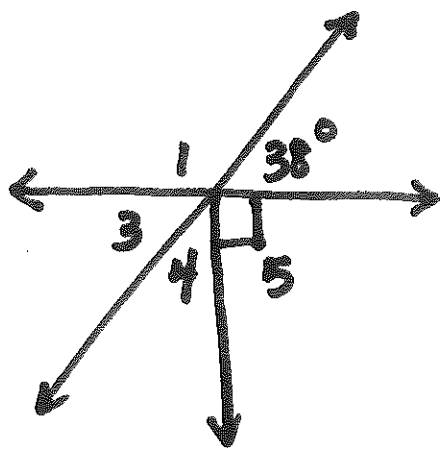
(14) What is the supplement of a 47° angle?

A, B, C

(15) What is the complement of a 54° angle?

B, C

(16)



a) What is the measure of $\angle 3$? Why?

b) Draw a line in angle 5 to make a pair of complementary angles.

(17) $-150 - 11x = 66 - 3x$

B

(18) $-7x - 3x + 2 = -8x - 8$

C

(19) $7(5a - 4) - 1 = 14 - 8a$

C

(20) $8x + 4(4x - 3) = 4(6x + 4) - 4$