

Name:

Worksheet(2)

Grade:7(A, B)

Subject : Math (Unit (6):Basic Geometry)

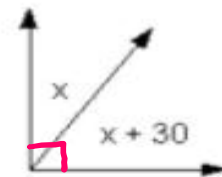
Complementary and Supplementary angles

Date :

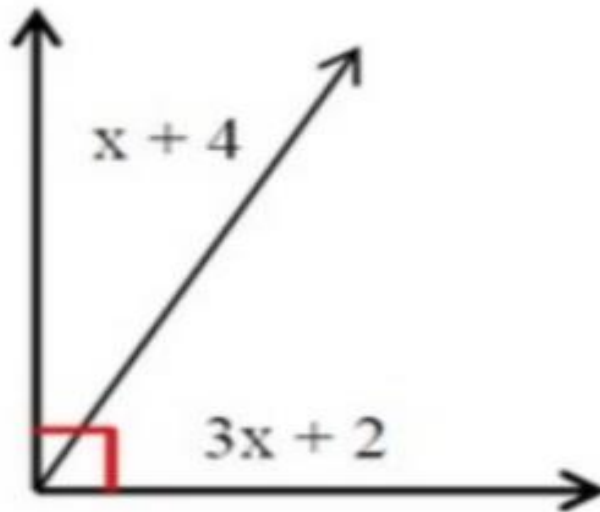
1

What is the value of x ?

- (A) 90 degrees
- (B) 20 degrees
- (C) 30 degrees
- (D) 45 degrees



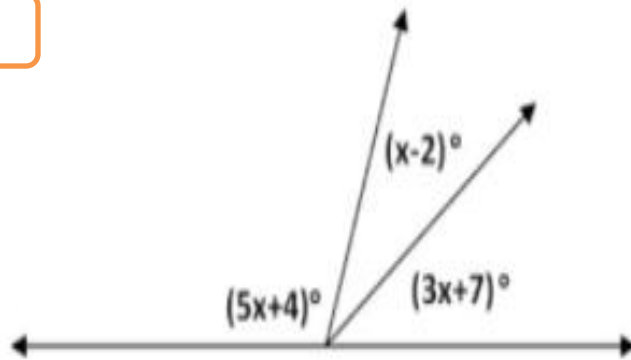
2



What is the value of x ?

- (A) 84 degrees
- (B) 18 degrees
- (C) 21 degrees
- (D) 30 degrees

3

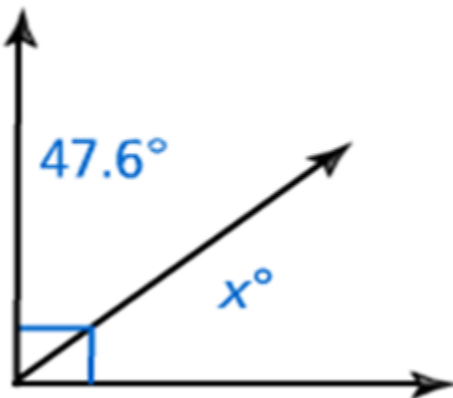


What is the value of x ?

- (A) $x=17$
- (B) $x=12$
- (C) $x=21$
- (D) $x=19$

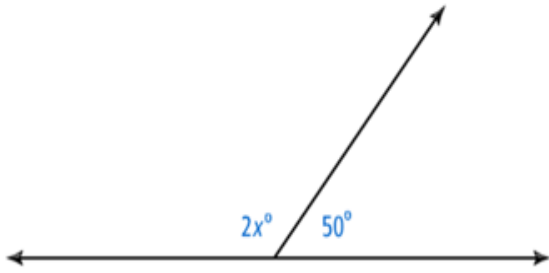
4

What is the value of x ?



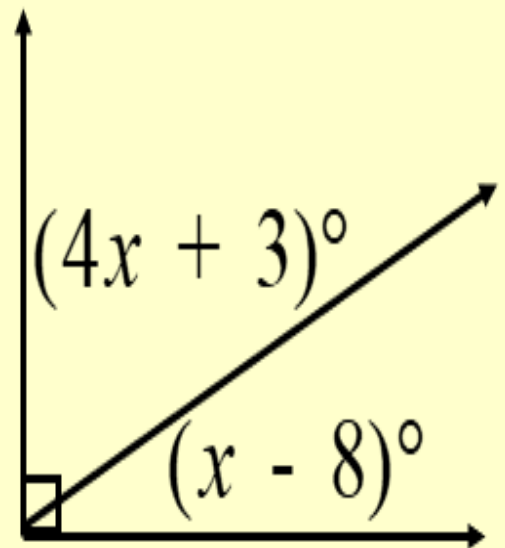
5

What is the value of x ?



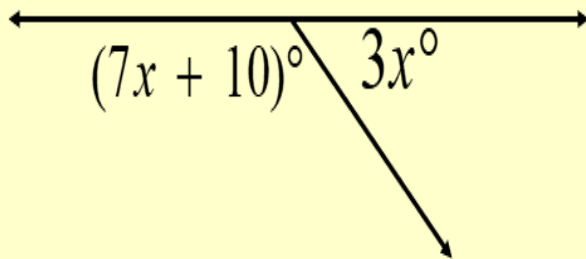
6

Find the value of x .



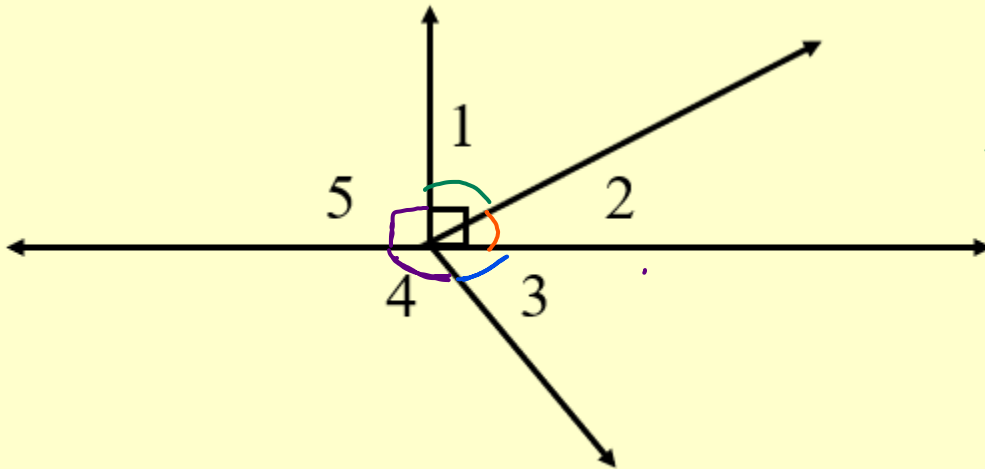
7

Find the value of x .



8

Study the diagram below, then answer the questions :



Are angles 4 and 5 supplementary angles?

Are angles 2 and 3 complementary angles?

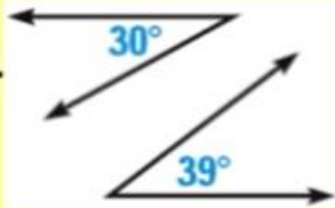
Are angles 4 and 3 supplementary angles?

Are angles 2 and 1 complementary angles?

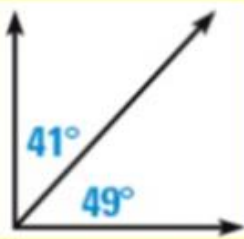
9

Determine whether the angles are *complementary*, *supplementary*, or *neither*.

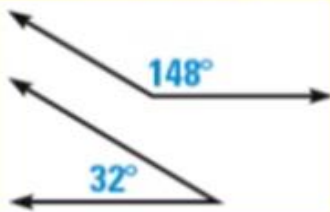
1.



2.



3.



10

a. $\angle A$ is a complement of $\angle C$, and $m\angle A = 47^\circ$. Find $m\angle C$.

b. $\angle P$ is a supplement of $\angle R$, and $m\angle R = 36^\circ$. Find $m\angle P$.

11

Angles A and B are complementary angles,

if $\sphericalangle A = (3.1x + 37.6)^\circ$ and $\sphericalangle B = (2.4 + 9.4x)^\circ$,

find the value of x???

12

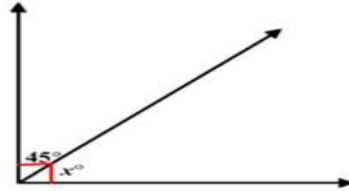
Angles A and B are supplementary angles,

if $\sphericalangle A = (3\frac{2}{5}x)^\circ$ and $\sphericalangle B = (0.2x)^\circ$,

find the value of x???

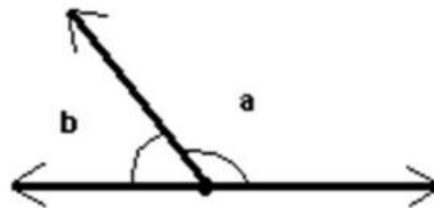
Complements

- Complementary angles are two angles whose sum is 90° (or a right angle). Each of the two angles is called the complement of the other.



Supplements

- Supplementary angles are two angles whose sum is 180° (or a straight angle). Each of the two angles is called the supplement of the other.



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