

Key answer worksheet 2

Worksheet(2) Grade:7(A, B) Name:

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

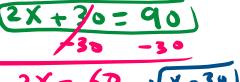
Complementary and Supplementary angles

X+X+30-

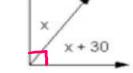
Date:



- What is the value of x?
- (A) 90 degrees
- (B) 20 degrees
- (c) 30 degrees
- (D) 45 degrees

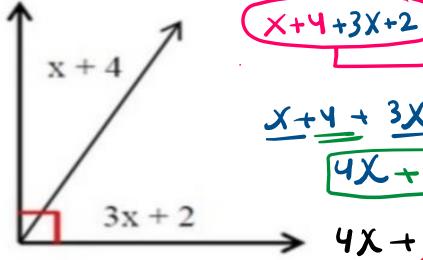






Complementary





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

$$4X + 6 = 40$$

$$4X = 84$$

$$4X = 84$$

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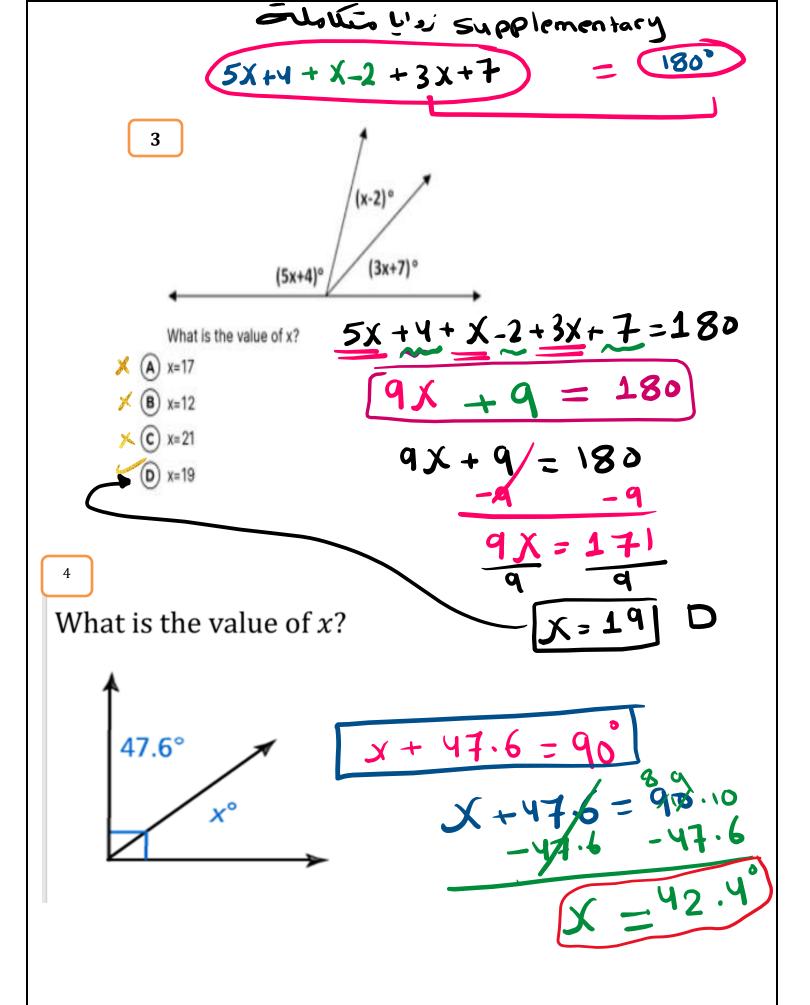












5

What is the value of x?

Supplements

$$2x + 50 = 180$$
 $2x = 130$
 $2x = 65$

6

Find the value of x.

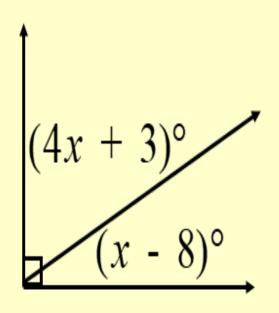
$$4x + 3 + x - 8 = 90$$

$$5x - 5 = 90$$

$$x5 + 5$$

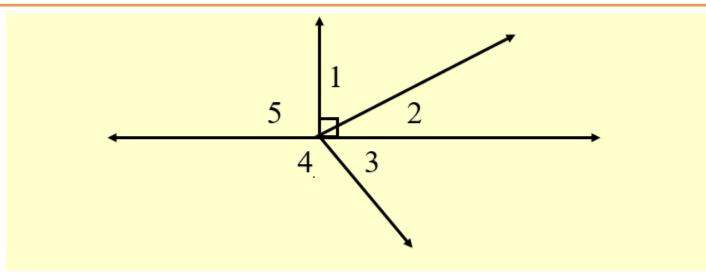
$$5x = 95$$

$$5x = 95$$



7 Find the value of x.
$$7x + 10 + 3x = 180$$
 $7x + 10 + 3x = 180$
 $7x + 10 + 3x = 180$

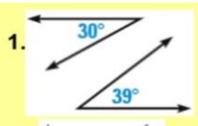
Study the diagram below, then answer the questions:



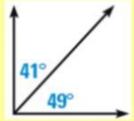
Are angles 4 and 5 supplementary angles? Are angles 2 and 3 complementary angles? Are angles 4 and 3 supplementary angles? Yes

Are angles 2 and 1 complementary angles?

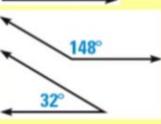
Determine whether the angles are complementary, supplementary, or neither.



2.



3.



تغني

- 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 $m\angle P$.

90°

Angles A and B are complementary angles,

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

find the value of x???

$$A + AB = 90^{\circ}$$

 $3.1X + 37.6 + 2.4 + 9.4X = 90$
 $12.5X + 90.0 = 90$

$$17.5X + 40 = 90$$

$$-40$$

$$12.5X = 50$$

$$12.5$$

$$12.5$$

$$12.5 = 10$$

$$12.5 = 10$$

12

Angles A and B are supplementary angles,

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

find the value of x???

$$3\frac{2}{5}X + 0.2X = 80$$

$$\frac{3.6 \times -180}{3.6} = \frac{180 \times 10}{3.6 \times 10} = \frac{1800 \times 18}{36 \times 18} = 50$$

$$32x + 6.2x = 180$$

$$\frac{17}{5}X + \frac{2}{15}X = 180$$

$$\frac{17}{5}X + \frac{1}{5}X = 180$$

$$\frac{17X + 1X}{5} = 180$$

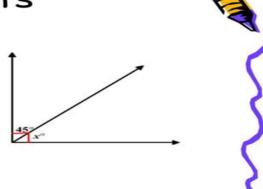
$$\frac{18 \times = 180}{5}$$

است موهرة

عی وطئ بندور پیر توهیر بنامار

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

