

Review Sheet
Chapter 1 Review Sheet

1. Given a number line: The coordinates of K and E are 7 and 17. A is the midpoint of KE and T is the midpoint of AE. Find

- a) KA
- b) the coordinate of A
- c) AT
- d) the coordinate of T.

2. If $\angle A$ and $\angle B$ are supplementary, find x , $m\angle A$ and $m\angle B$.

$$m\angle A = 3x + 12$$

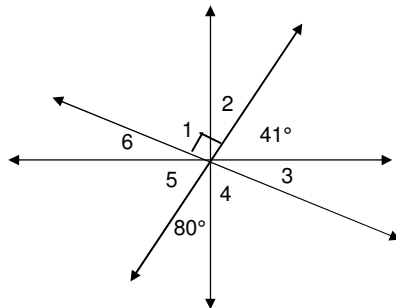
$$m\angle B = 2(x + 4)$$

3. If $\angle A$ and $\angle B$ are now complementary, but have the same variable values as above, find x

$m\angle A$ and $m\angle B$.

4. The supplement of an angle is 48 more than twice the complement of the same angle. Find the angle. (Hint: Call the angle x . Then its supplement would be _____ and its complement would be _____)

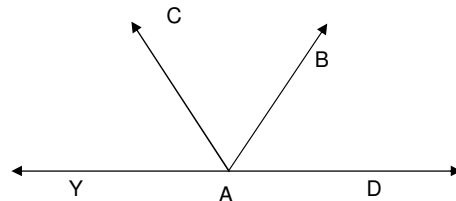
5. Given the drawing, find the measures of the numbered angles.



6. Given \overrightarrow{AC} bisects $\angle YAB$.

a) If $m\angle YAC = x$ and $m\angle BAD = 4x - 32$ find x .

b) If $m\angle YAB = 68$ and $m\angle BAC = 3x - 1$ find x .



Answers:

1.

a) 5 b) 12 c) 2.5 d) 14.5

2.

angle A = 108 angle B = 72

3.

angle A = 54 angle B = 36

4.

$180 - x$ and $90 - x$ and $x = 48$

5.

$\angle 1 = 10$

$\angle 2 = 80$

$\angle 3 = 49$

$\angle 4 = 10$

$\angle 5 = 41$

$\angle 6 = 49$

6.

a) $35 \frac{1}{3}$

b) $11 \frac{2}{3}$