

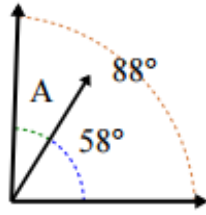
HELLO! PLEASE GET YOUR ISN!

THIS WILL GO ON THE BOTTOM OF PAGE 13

Determine the value of 'A'.

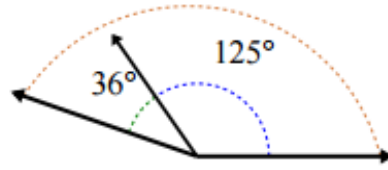
1)

$$88 - 58 = 30 = A$$



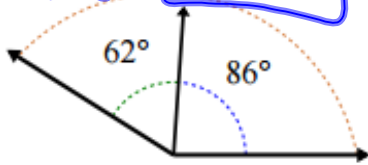
2)

$$36 + 125 = 161 = A$$



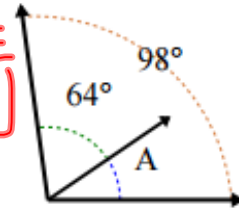
3)

$$62 + 86 = 148 = A$$



4)

$$98 - 64 = 34 = A$$



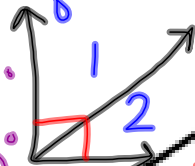
Aug 14-8:00 AM

TOC PG 16 ANGLE PAIRS

Complementary

two angles that add to equal 90

- 36° & 54°
- 23° & 67°
- 45° & 45°



Supplementary

two angles that add to equal 180
make a straight angle

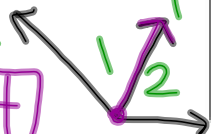
- 100° & 80°
- 113° & 67°
- 90° & 90°



Angle Pairs

two angles that are next to each other
share one side & a vertex

Adjacent



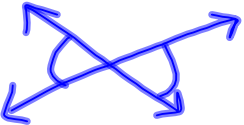



congruent/equal to each other
across from each other
formed by 2 intersecting lines



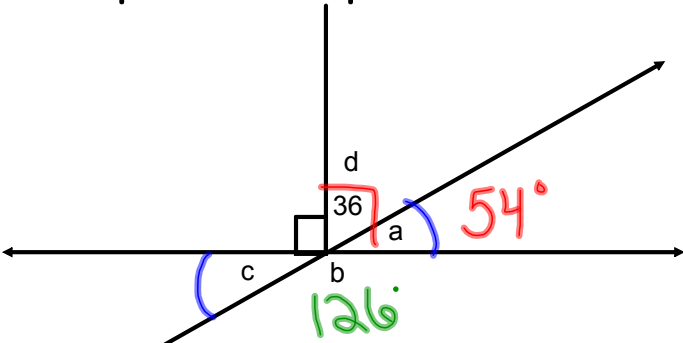
Vertical

Aug 14-8:03 AM

Complimentary angles	two angles that add to be 90°	
Supplementary angles	two angles that add to be 180°	
Vertical angles	two angles created by intersecting lines * Always \cong !!!!	
Adjacent angles	two angles that share a side, neighbors	

Aug 18-11:19 AM

pg 16 angle pairs



$\angle a = 90 - 36 = 54^\circ$
 $\angle b = 180 - 54 = 126$
 $\angle c = \angle a = 54^\circ$

$\angle b$ and $\angle c$ are Supplementary/adjacent angles.
 $\angle a$ and $\angle c$ are verticals angles.
 $\angle a$ and $\angle d$ are complementary/adjacent angles.

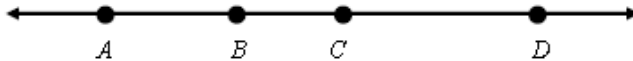
Aug 18-11:22 AM

homework

Find the complement of the following angles: 1. 34° 2. 72°

Find the supplement of the following angles: 3. 153° 4. 48°

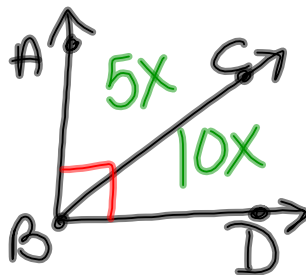
Use the given line for problems #5 - #10:



5. If $AB = 14$, $BC = 5$, and $AD = 26$, find the length of CD .
6. If $AB = 18$, $BC = 2$, and $AD = 30$, find the length of CD .
7. If $AD = 40$, $CD = 12$, find the length of AC .
8. If $BC = 6$, $CD = 8$, and $AD = 18$, find the length of AB .
9. If $AB = 15$, and BD is twice the length of AB , find the length of AD .
10. If $AC = 20$ and CD is half the length of AC , find the length of AD .

Aug 18-9:45 AM

Ex1(pg 17): $\angle ABC$ and $\angle CBD$ are complimentary. If $m\angle ABC = 5x$ and $m\angle CBD = 10x$, what does x equal?



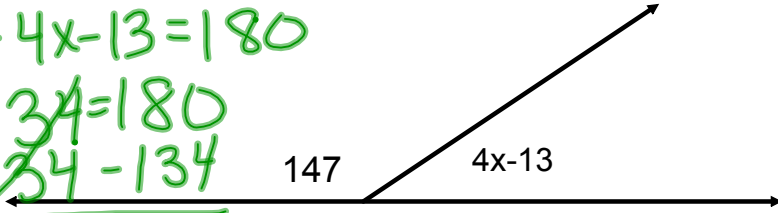
$$5x + 10x = 90$$

$$\frac{15x}{15} = \frac{90}{15}$$

$$x = 6$$

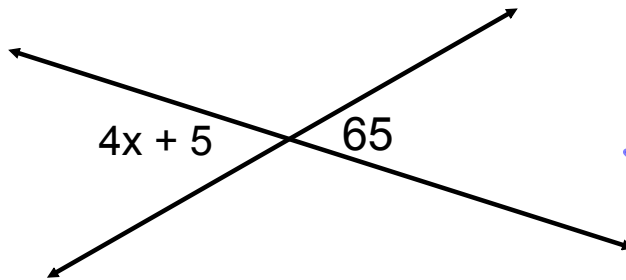
Aug 14-8:13 AM

Ex 2: Find the value of x.

$$147 + 4x - 13 = 180$$
$$4x + 134 = 180$$
$$-134 \quad -134$$


$$\frac{4x}{4} = \frac{46}{4} \quad \boxed{x = 11.5}$$

Ex 3: Find x.



$$4x + 5 = 65$$
$$-5 \quad -5$$
$$\frac{4x}{4} = \frac{60}{4}$$
$$\boxed{x = 15}$$

Aug 14-8:18 AM