

Unit 5- Homework for lessons 1 and 2

Name: _____

SHOW ALL SOLVING WORK ON YOUR PAPER.

Angle Relationships: Find the measurement indicated on the right. (Drawings are not to scale.)

1. $\angle A$ and $\angle B$ are complementary angles. $m\angle A = (2x + 1)^\circ$ and

$m\angle B = (x + 5)^\circ$. Find the x , $m\angle A$ and $m\angle B$

1. $x =$ _____

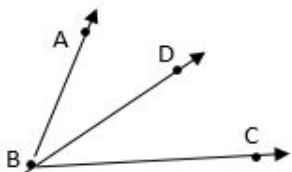
$m\angle A =$ _____

$m\angle B =$ _____

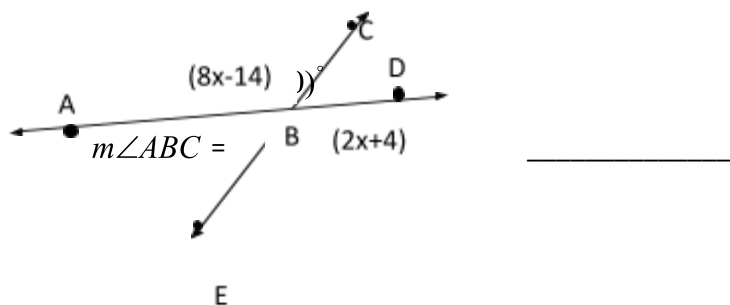
2. If $m\angle ABC = 6x - 7$, $m\angle DBC = (2x + 8)$, and $m\angle ABD = 65^\circ$
find the value of x and $m\angle DBC$.

2. $x =$ _____

$m\angle DBC =$ _____

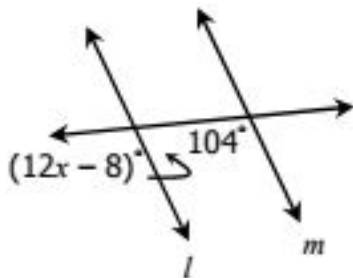


3. Find the measure of x and $m\angle ABC$.



3. $x =$ _____

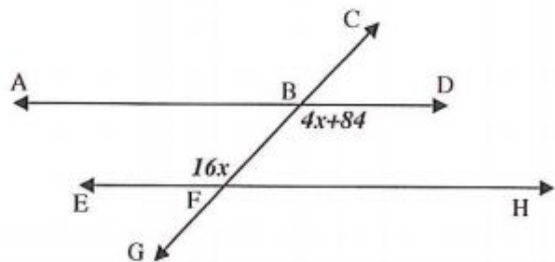
4. Name the type of angles given then find x .



4. Name: _____

$x =$ _____

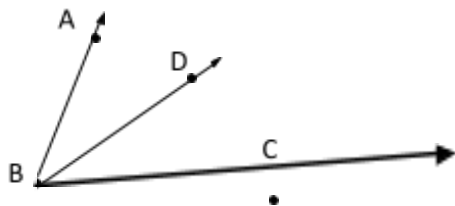
5. Name the type of angles given then find x .



5. Name: _____

$x =$ _____

6. If BD bisects $\angle ABC$ and $m\angle ABD = (5x-15)$ and $m\angle DBC = (3x+7)$, find x and $m\angle ABC$.



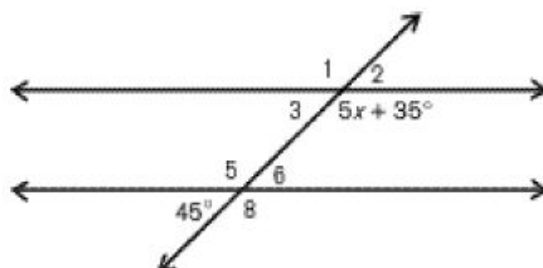
6. $x =$ _____

$m\angle ABC =$ _____

7. A right triangle has hypotenuse of 12 and a leg of 7. What is the length of the other leg? 7. _____

Multiple choice: *Use Capital Letters!** and show your work.

Use the diagram of parallel lines cut by a transversal to answer questions 8 through 13.



- _____ 8. What is the measure of $\angle 8$?
 A) 45° B) 145° C) 55° D) 135° E) 155°
- _____ 9. What is the measure of $\angle 3$?
 A) 45° B) 145° C) 55° D) 135° E) 155°
- _____ 10. What is the measure of $\angle 6$?
 A) 45° B) 145° C) 55° D) 135° E) 155°
- _____ 11. What type of angle pair is $\angle 1$ and $\angle 6$?
 A) Alternate interior angles B) Supplementary angles C) Corresponding angles
 D) Alternate exterior angles E) vertical angles
- _____ 12. What is the measure of $\angle 2$?
 A) 55° B) 180° C) 80° D) 45° E) 135°
- _____ 13. What type of angle pair is $\angle 1$ and $\angle 3$?
 A) Alternate interior angles B) Supplementary angles C) Corresponding angles
 E) Alternate exterior angles E) vertical angles