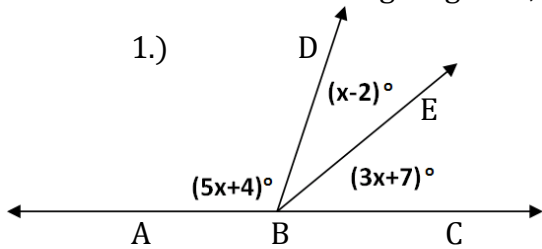


Mini-Unit Study Guide: Special Angle Pairs

Given the following diagrams, solve for x and find the missing angle measures.

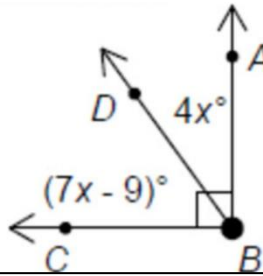
1.)



Show work:

x = _____
 $m\angle ABD =$ _____
 $m\angle DBE =$ _____
 $m\angle EBC =$ _____
 $m\angle ABE =$ _____

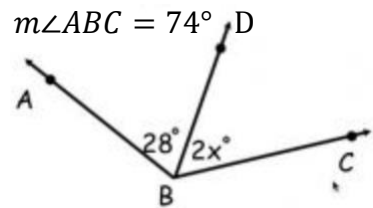
2.)



Show work:

x = _____
 $m\angle CBD =$ _____
 $m\angle DBA =$ _____

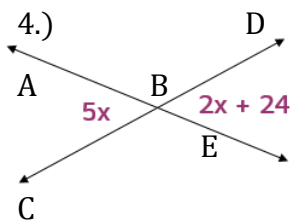
3.) $m\angle ABC = 74^\circ$



Show work:

x = _____
 $m\angle DBC =$ _____

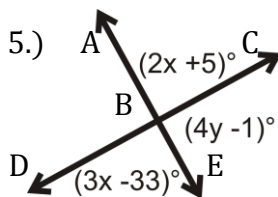
4.)



Show work:

x = _____
 $m\angle ABC =$ _____
 $m\angle DBE =$ _____

5.)

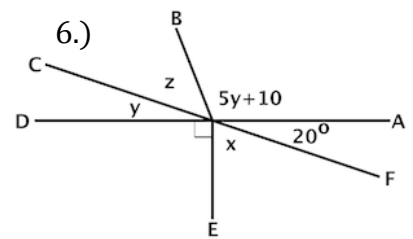


Show work:

x = _____

 y = _____
 $m\angle DBE =$ _____
 $m\angle ABC =$ _____
 $m\angle CBE =$ _____

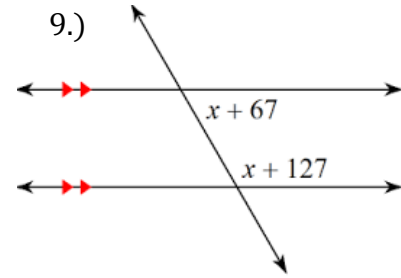
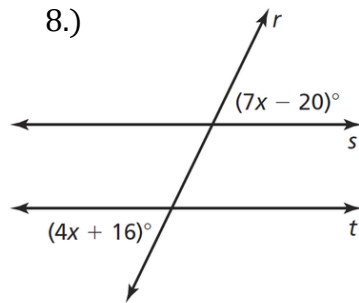
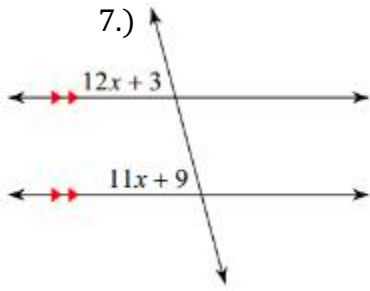
6.)



Show work:

x = _____
 y = _____
 z = _____

Mini-Unit Study Guide: Special Angle Pairs



Show work:

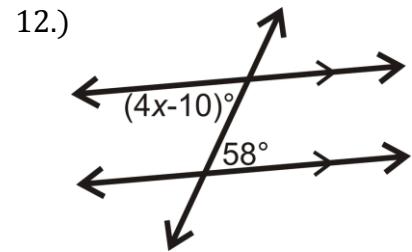
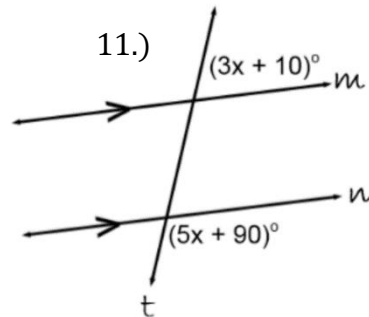
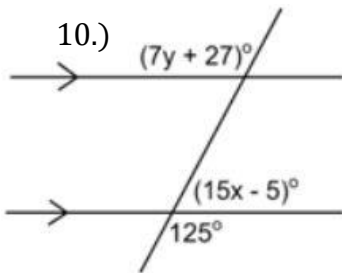
$x =$ _____

Show work:

$x =$ _____

Show work:

$x =$ _____



Show work:

$x =$ _____

$y =$ _____

Show work:

$x =$ _____

Show work:

$x =$ _____

Mini-Unit Study Guide: Special Angle Pairs

13.) Andres Torres, Amares Lucero, and Marcelino Ayala decide to shoot some bow and arrows to see who has the better aim. They pin a bullseye target onto a tree. The arrows shot by Andres and Amares shoot into the tree parallel to the ground where Andres' arrow is directly above the arrow shot by Amares. The arrow shot by Marcelino cuts diagonally across the other two parallel arrows from below. If the larger angle created from Andres' arrow and Marcelino's arrow is 150° , what is the angle from which Marcelino launched his arrow? Draw a diagram and label. Then find the angle at which Marcelino shot his arrow.

14.) The mayor of Mathville wants to build some new roads to allow traffic to flow at a faster rate. He decides to build two parallel streets, Quadratic Street and Linear Street. Quadratic Street is North of Linear Street. He then decides to build a street that intersects Quadratic Street and Linear Street at a South-East diagonal, called Cubic Street. The larger angle created by the intersection of Quadratic Street and Cubic Street is 130° . If the mayor wants to build another street called Exponential Street that is East of Cubic Street and parallel to it, what does the angle measure need to be for the south-east part of the intersection of Quadratic and Exponential Street? Draw a diagram and answer the question.

Draw the following diagrams and label them.

a.) Vertical Angles

b.) Linear Pair

c.) non-adjacent complementary angles

d.) Adjacent complementary angles

e.) Alternate interior angles

f.) Same-side Exterior Angles

g.) Corresponding Angles