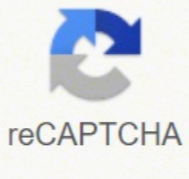
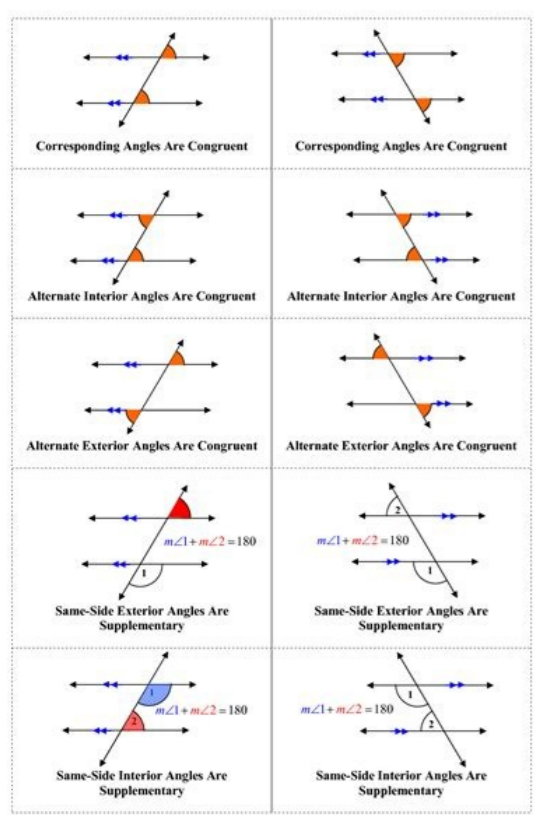




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Name : \_\_\_\_\_ Score : \_\_\_\_\_

Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

Find the missing angle measurement using the angle addition postulate.

1)  $\angle DEG = 66^\circ$   
 $\angle GEF = \underline{\hspace{2cm}}$   
 $\angle DEF = 140^\circ$

2)  $\angle BCE = 77^\circ$   
 $\angle ECD = 58^\circ$   
 $\angle BCD = \underline{\hspace{2cm}}$

3)  $\angle GHK = 71^\circ$   
 $\angle KHJ = 19^\circ$   
 $\angle GHJ = \underline{\hspace{2cm}}$

4)  $\angle ABO = \underline{\hspace{2cm}}$   
 $\angle OBC = 85^\circ$   
 $\angle ABC = 130^\circ$

5)  $\angle HJL = \underline{\hspace{2cm}}$   
 $\angle LJK = 17^\circ$   
 $\angle HJK = 100^\circ$

6)  $\angle OFR = 84^\circ$   
 $\angle RFQ = 26^\circ$   
 $\angle OFQ = \underline{\hspace{2cm}}$

7)  $\angle PQS = 113^\circ$   
 $\angle SQR = \underline{\hspace{2cm}}$   
 $\angle PQR = 150^\circ$

8)  $\angle QRT = 92^\circ$   
 $\angle TRS = \underline{\hspace{2cm}}$   
 $\angle QRS = 125^\circ$

9)  $\angle EFH = 110^\circ$   
 $\angle HFG = 35^\circ$   
 $\angle EFG = \underline{\hspace{2cm}}$

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Angles In A Circle

Inscribed angles subtended by the same arc are equal.	
Angles subtended by the diameter (or semi-circle) is 90°.	
Central angle is twice any inscribed angle subtended by the same arc.	

Alternate Angles

'Z' ANGLE

Alternate Angles

'Z' ANGLE

Corresponding Angles

'F' ANGLE

Corresponding Angles

'F' ANGLE

Interior Angles

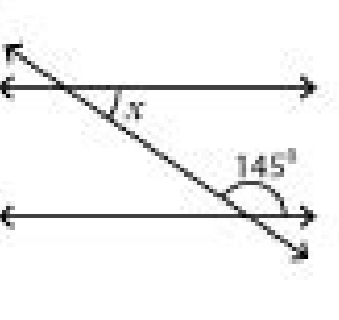
'C' ANGLE

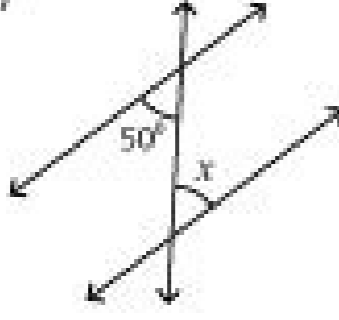
Interior Angles

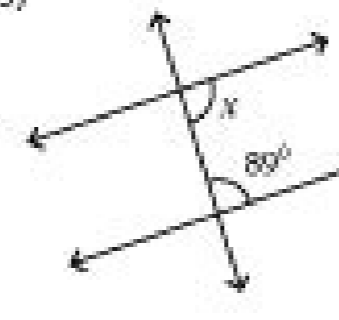
'C' ANGLE

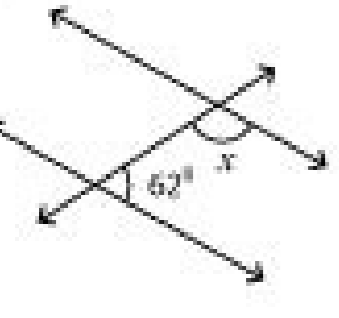
# Interior Angles

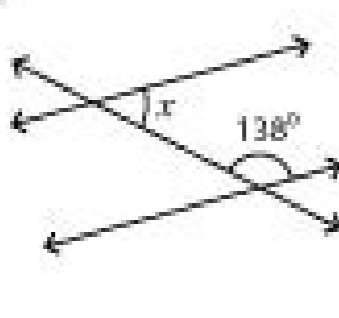
Find the value of  $x$ .

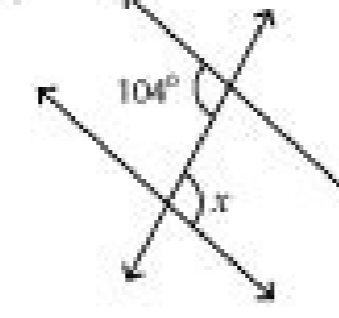
1)   
 $x = \underline{\hspace{2cm}}$

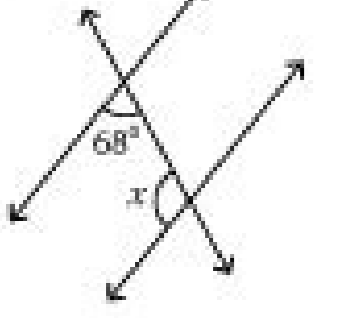
2)   
 $x = \underline{\hspace{2cm}}$

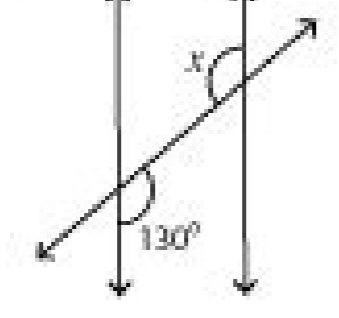
3)   
 $x = \underline{\hspace{2cm}}$

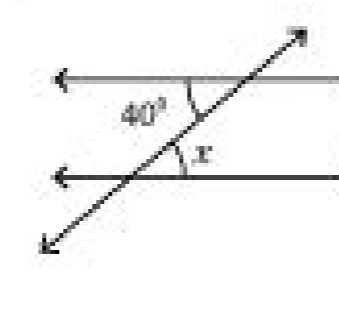
4)   
 $x = \underline{\hspace{2cm}}$

5)   
 $x = \underline{\hspace{2cm}}$

6)   
 $x = \underline{\hspace{2cm}}$

7)   
 $x = \underline{\hspace{2cm}}$

8)   
 $x = \underline{\hspace{2cm}}$

9)   
 $x = \underline{\hspace{2cm}}$

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(1) 2. Using alternate angles and angles on a straight line:  $\theta = 180 - 103 = 77^\circ$  Using alternate angles, we can see that the angle in the bottom right vertex of the triangle is  $38^\circ$ . Traverse through this huge assortment of transversal worksheets to acquaint 7th grade, 8th grade, and high school students with the properties of several angle pairs like the alternate angles, corresponding angles, same-side angles, etc., formed when a transversal cuts a pair of parallel lines. Alternate angles are angles that occur on opposite sides of the transversal line and have the same size. Alternate angles are equal: We can often spot interior alternate angles by drawing a Z shape: There are two different types of alternate angles, alternate interior angles and alternate exterior angles. Below are diagrams showing these two variations. Alternate interior angles: Here, the two angles of a and b are in between the parallel lines and therefore are pairs of alternate interior angles. Get hold of some of our worksheets for free! Identifying Interior and Exterior Angles Familiarize students with the locations of alternate interior, alternate exterior, same-side interior, and same-side exterior angles formed by parallel lines being cut by a transversal, with this printable practice set. (4 marks) (1)  $9x - 9 = 180$   $9x = 189$   $x = 21$  (1)  $5$  (1)  $21 + 3x = 108$   $6$  (1)  $21 - 18x = 108$  (1) Alternate angles are equal therefore the lines are parallel. Here we can label the alternate angle on the diagram as  $50^\circ$ . We can then use angles in a triangle:  $\theta = 180 - (79 + 38) = 63^\circ$  Using alternate angles, we can see the angle  $\theta = 22^\circ$ . Alternate exterior angles: Here, the two angles of c and d are outside of the parallel lines and so these are two examples of pairs of alternate exterior angles. (3 marks) Angle  $ACD = 72^\circ$  (1) Angle  $ACB = 180 - (90 + 48) = 42^\circ$  (1)  $72 - 42 = 30^\circ$  (1) 3. What are alternate angles? Justify your answer. Exterior Angles - Solve for x | Difficult Included here are 20+ figures representing the measures of two angles located outside the parallel lines as linear expressions. (3 marks)  $180 - 70 = 110$  since angles in a triangle add up to  $180^\circ$ . Find the size of angle y. Find out more about our GCSE maths revision programme. Show that the lines AB and CD are parallel. (1) Alternate angles are equal so  $a = 55^\circ$ . We therefore can calculate  $\theta$ :  $\theta = 180 - (56 + 62) = 62^\circ$  By working out the value for x, calculate the size of the missing angle  $\theta$ . You may find it helpful to start with the main angles in parallel lines lesson for a summary of what to expect, or use the step by step guides below for further detail on individual topics. The angle  $\theta$  is the alternate angle to the sum of  $56^\circ$  and  $62^\circ$  as shown in the diagram below. Interior and Exterior Angles - Solve for x | Easy Featuring 24 problems for practice, this set of printable worksheets is the ultimate in training students to identify alternate and same-side angles, form one-step equations using their properties, and solve them. To prevent this from occurring, think about the alternate angles being on the alternate sides of the line. Then  $\theta = 110 - 42 = 68^\circ$ . There are a lot of angle facts and it is easy to mistake alternate angles with corresponding angles.  $180 - 22 = 158$   $158 \div 2 = 79^\circ$  Alternate angles are equal so  $7x - 20 = 4x + 10$  When  $x = 10$ :  $7x - 20 = 7(10) - 20 = 50^\circ$   $4x + 10 = 4(10) + 10 = 50^\circ$  Alternate Angles GCSE questions 1. There are also angles in parallel lines worksheets based on Edexcel, AQA and OCR exam questions, along with further guidance on where to go next if you're still stuck. The value for  $10x = 100^\circ$  as  $x = 10^\circ$ . State the alternate angle, co-interior angle or corresponding angle fact to find a missing angle in the diagram. Form an equation using the congruent or supplementary property that governs each angle pair, and solve it for the value of x. Here  $\theta$  is on a straight line with  $50^\circ$ .  $\theta = 180 - 50 = 130^\circ$ . Calculate the size of the missing angle  $\theta$ . Use a basic angle fact to calculate the missing angle. Highlight the angle(s) that you already know. Interior Angles - Solve for x | Difficult This batch of high school exercises depicts the measures of two interior angles as linear expressions. Includes reasoning and applied questions. Weekly online one to one GCSE maths revision lessons delivered by expert maths tutors. 3 Use a basic angle fact to calculate the missing angle. Find the size of angle a. Give reasons for your answer. Determine whether the two angles are alternate or same-side, apply the apt properties, and figure out the angle. (1) Isosceles triangle so two angles equal  $110 \div 2 = 55$ . Here we can state the angle  $62^\circ$  as it is corresponding to the original angle. Interior Angles - Solve for x | Moderate The measure of one of the interior angles is represented as a linear expression. Corresponding Angles Let students of grade 7 and grade 8 conceive of corresponding angles as the angles in matching corners of the parallel lines cut by a transversal and learn that their measures are equal, with our printer-friendly worksheets. Equate the two expressions if the angles are alternate, or equate their sum to  $180^\circ$  if the angles are consecutive. Get your free Alternate Angles worksheet of 20+ questions and answers. 2 State the alternate angle, co-interior angle or corresponding angle fact to find a missing angle in the diagram. Our all-new resources facilitate a comprehensive practice of the two broad categories of angles: the interior and exterior angles (based on their position) and the congruent and supplementary angles (considering the properties they exhibit). Highlight the angle(s) that you already know. It is important to notice that the transversal on each diagram is at a different angle but the two angles in each diagram are the same size. As is the case with all diagrams for angles in parallel lines, never use a protractor to find an angle as all the diagrams, unless stated otherwise, are not to scale. Work out the value of 'x' in each figure, and stay a step ahead of your peers. Here we can use the sum of angles in a triangle to help calculate the value for  $\theta$ . We can then use the fact that this is an isosceles triangle and the other two angles in the triangle are the same. Exterior Angles - Solve for x | Moderate Assess your understanding of exterior angles formed by parallel lines and transversal with these printable pdfs. Other lessons in this series include: Angles in parallel lines Corresponding angles Co-interior angles Practice alternate angles questions  $104^\circ$  and  $\theta$  are alternate angles so  $\theta = 104^\circ$ . Here we will learn about alternate angles including how to recognise when angles are alternate and apply this understanding to solve problems. Interior Angles - Finding the Unknown | Easy These pdf worksheets offer ample practice in finding one of the angles in an interior angle pair. Alternate angles is part of our series of lessons to support revision on angles in parallel lines. We use essential and non-essential cookies to improve the experience on our website. Discern if the other indicated angle is congruent or supplementary to this angle, and evaluate the expression. Please read our Cookies Policy for information on how we use cookies and how to manage or change your cookie settings. Accept Privacy & Cookies Policy Here we know most of the angles so highlight the angles that are going to help you find the value of x. In order to calculate with alternate angles: Highlight the angle(s) that you already know. State the alternate angle, co-interior angle or corresponding angle fact to find a missing angle in the diagram. Use a basic angle fact to calculate the missing angle. Most diagrams are not to scale and so using a protractor will not result in a correct answer unless it is a coincidence. We can therefore find the value for x:  $3x = 30^\circ$   $x = 10^\circ$  Use a basic angle fact to calculate the missing angle. (1) You have now learned how to: Apply the properties of angles at a point, angles at a point on a straight line, vertically opposite angles Understand and use the relationship between parallel lines and alternate and corresponding angles Interior angles of a polygon Exterior angles of a polygon Pythagoras' theorem Prepare your KS4 students for maths GCSEs success with Third Space Learning. Using a protractor to measure an angle. Supplementary and Congruent Angles Name the angle pairs indicated in this array of 7th grade exercises as congruent or supplementary, and use the related postulates to find the measures of a few angles at the end of each worksheet here. Here,  $3x$  and  $30^\circ$  are alternate to each other. COMING SOON x Get your free Alternate Angles worksheet of 20+ questions and answers. COMING SOON Example 1: alternate angles Calculate the size of the missing angle  $\theta$ . Exterior Angles - Solve for x | Easy Recapitulate alternate and same-side exterior angles and linear pairs, and implement their properties to determine the measure of the unknown angles, in this stack of 7th grade worksheets.

State the alternate angle, co-interior angle or corresponding angle fact to find a missing angle in the diagram. Use a basic angle fact to calculate the missing angle. How to calculate with alternate angles. Alternate angles worksheet. Get your free Alternate Angles worksheet of 20+ questions and answers. Includes reasoning and applied questions. Naming Angle Pairs Formed by Parallel Lines Cut by a Transversal. With this bunch of image-based exercises, students get to recognize vertical, linear, corresponding, same-side, and alternate pairs of angles by analyzing the position and size of the angles depicted. 25.08.2021 · Understanding angles and angle relationships allows for easier calculation of angle measurement. Learn how to define various types of angles, including vertical, corresponding, alternate interior ... 2 State the alternate angle, co-interior angle or corresponding angle fact to find a missing angle in the diagram. 3 Use basic angle facts to calculate the missing angle. Steps 2 and 3 may be done in either order and may need to be repeated. Step 3 may not always be required. Alternate interior angles: Angle relationships. Beyond measuring the degrees or radians, you can also compare angles and consider their relationships to other angles. We talk of angle relationships because we are comparing position, measurement, and congruence between two or ... According to the alternate interior angles theorem, if two parallel lines are crossed by a transversal, then the alternate interior angles are equal in measure. Using this theorem, we can find the measure of alternate interior angle if we know the measure of the corresponding alternate interior angle. Parallel Lines, and Pairs of Angles Parallel Lines. Lines are parallel if they are always the same distance apart (called "equidistant"), and will never meet. Just remember: Always the same distance apart and never touching.. The red line is parallel ...

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