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Parallel lines geometry worksheet

Here is a graphical preview for all parallel and perpendicular lines worksheets. You can select different variables to customize these parallel and perpendicular lines worksheets for your needs. Parallel and perpendicular line worksheets are randomly created and will never be repeated, so you have an endless source of parallel and perpendicular quality lines to use in the classroom or at home. We have the identification of parallel lines, identification of perpendicular lines, identification of intersected lines, identification of parallel, perpendicular and intersecting lines, identification of parallel, perpendicular and intersecting lines in a graph. Given the slope of two lines identifies whether the lines are parallel, perpendicular or not. Find the slope for any parallel line and the slope of any line perpendicular to the given line. Find the equation of a line passing through a certain point and parallel to the date equation. Find the equation of a line that passes through a specific point and perpendicular to the given equation, and determine whether the equations given for a pair of lines are parallel, perpendicular, or intersected for your use. Our parallel and perpendicular lines are free to download, easy to use and very flexible. These parallel and perpendicular lines worksheets are a great resource for children in 5th grade, 6th grade, 7th grade, 8th grade, 9th grade, and 10th grade. Click here for a detailed description of all parallel and perpendicular lines worksheets. Click the image to take to the Parallel and Perpendicular Lines worksheet. Identification of parallel line worksheets These parallel and perpendicular lines worksheets are excellent for practicing the identification of parallel lines in images. These worksheets will cause 6 problems per page. Identification of perpendicular lines worksheets These parallel and perpendicular lines worksheets are excellent for practicing identifying perpendicular lines in images. These worksheets will cause 6 problems per page. Identification of parallel, perpendicular and intersecting lines worksheets These parallel and perpendicular lines worksheets are excellent for practicing the identification of parallel, perpendicular and intersecting lines in images. These worksheets will cause 6 problems per page. Identifying parallel, perpendicular, and intersecting lines in a graph These parallel and perpendicular lines worksheets will display a graph of a series of parallel, perpendicular, and intersecting lines and ask a series of questions about the graph. These worksheets will cause 10 problems per page. Given the slopes of two lines Determine whether the lines are parallel, or neither these parallel and perpendicular worksheet lines will give slopes of two lines and ask the student if the lines are parallel, perpendicular, or none. These worksheets will cause 10 problems per page. Given the slope of a line line Slopes for Parallel and Perpendicular Lines Worksheets These parallel and perpendicular lines worksheets will give the slope of a line and ask the student to determine the slope for any line that is parallel and the slope that is perpendicular to the given line. These worksheets will cause 10 problems per page. Find the equation of a parallel line passing through a given equation and indicate these parallel and perpendicular worksheets will ask the student to find the equation of a parallel line that passes through a given equation and point. These worksheets will cause 6 problems per page. Find the equation of a perpendicular line passing through a given equation and indicate these parallel and perpendicular lines worksheets will ask the student to find the equation of a perpendicular line that passes through a given equation and point. These worksheets will cause 6 problems per page. Given a pair of lines Determine whether the lines are parallel, perpendicular or intersected These parallel and perpendicular lines worksheets will give the student a pair of equations for the lines and ask them to determine whether the lines are parallel, perpendicular or intersected. These worksheets will cause 6 problems per page. Click here for more geometry related topics worksheets: More lessons for high school geometry More lessons for Geometry Math Worksheets A series of free, online High School Geometry Video Lessons and Solutions. Videos, worksheets, and tasks to help geometry students. In this lesson, we learn alternate inner angles alternate outer angles inner angles the same inner side and outer angles the same side converse of the theorem of parallel lines alternative inner angles alternate inner angles are formed by a cross-crossing two lines. They are located between the two lines, but on the opposite sides of the transverse, creating two pairs (four total angles) of alternate inner angles. If the two lines are parallel, then the alternative inner angles are congruent, which means they have the same measure. to define alternative interior angles and their special properties? Find out what alternative inner angles are and their relationship to parallel lines. Show Step-by-Step Solutions use alternative inner angles to find angle measurements? Example: $BDE = 30^\circ$, $ADB = 61^\circ$. Find the measure of the CDA, the DAB, and the ABD. Show Step-by-Step Solutions Alternative outer angles are formed by a cross-crossing of two lines. They are located outside the two lines, but on the sides of the transverse, creating two pairs (four total angles) of alternate outer angles. If the two lines are parallel, then the alternative external angles are which means they have the same measure. define alternative external angles and their special properties? Find out what alternative external angles are and their relationship to parallel lines. Parallel. Step-by-step solutions to find an angle using alternate external angles? Show step-by-step solutions When two parallel lines intersected by a cross-sectional, identical interior (between parallel lines) and the same lateral exterior (outside parallel lines) are formed. Because the alternate inner and outer angles are congruent and because the linear pairs of angles are additional, the same lateral angles are additional. to describe the same lateral inner angles and the same lateral outer angles and their special properties? Show Description of step-by-step solutions and examples of transverses and angles (Alternative interior, alternate exterior, identical lateral interior, identical lateral exterior, correspondent) If a transverse crosses parallel lines: • the corresponding angles are congruent. • The alternative inner angles are congruent. • The alternative external angles are congruent. • The lateral inner angles are additional. • the same lateral outer angles are additional. Show step-by-step solutions If two lines are cross-sectional, then the alternate inner angles, the alternate outer angles, and the corresponding angles are congruent. The inverse of the theorem is true, too. If two corresponding angles are congruent, then the two cut transverse lines must be parallel. Similarly, if two alternative inner or outer angles are congruent, the lines are parallel. is used inversely of the parallel line theorem? This lesson investigates and use the inverse of the alternative inner angles theorem, the inverse of the external angles theorem, the inverse of the corresponding angles postulated, the inverse of the same side the inner angles theorem and the inverse of the same outer angles theorem. Converse of the corresponding angles postulates If two lines and a transverse shape corresponding angles that are congruent, then the two lines are parallel. Converse of the theorem of alternative inner angles If two lines and a transverse shape alternate the inner angles that are congruent, then the two lines are parallel. Converse of the Same-Side Interior Angles Theorem If two lines and a transverse shape inner angles on the same side, which are additional, then the two lines are parallel. Example: A rectangular wooden frame has a diagonal metal brace. The angles indicated were measured as equal. Which parts are parallel? Explain. Show step-by-step solutions prove that the lines are parallel? This lesson investigates and use the inverse of the alternative inner angles theorem, the inverse of the external angles of the theorem, the inverse of the corresponding postulated angles, On the same side inner angles theorem and reverse of the same side outer angles Show step-by-step Solutions Try free mathway calculator and problem solver below to practice various mathematical subjects. Try the given examples or type your own problem and your answer with step-by-step explanations. We welcome your feedback, comments and questions about this site or page. Please send your feedback or requests via our feedback page. Three differentiated worksheets (with solutions) that allow students to take their first steps, then consolidate and expand their skills in working with angles within parallel lines. Click [-> tes.com/.../worksheets...](https://www.tes.com/worksheets) to download similar style worksheets on other topics. These worksheets are excellent to use in class or as a theme. They are also excellent for one-on-one schooling and interventions. This download includes a special PowerPoint that allows individual questions to be expanded and answers to questions to be disclosed one at a time. If you like this resource, please evaluate it and/or leave a comment. If the rate-resource button on this page doesn't work, go to the rating page by clicking [-> www.tes.com/.../rate-resources...](https://www.tes.com/rate-resources) [www.tes.com/.../rate-resources...](https://www.tes.com/rate-resources)