

# LESSON 8 PARALLEL AND PERPENDICULAR LINES WORDPRESS

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**Is the line  $y = 3x + 7$  parallel or perpendicular to  $3x + 9y + 9$ ?** The lines  $y = 3x - 7$  and  $3x + 9y = 9$  are perpendicular lines. To tell if the lines are perpendicular or parallel, we must look at the slope of each line. To find the slope, both equations of the lines must be in slope-intercept form ( $y = mx + b$ ):  $y = 3x - 7$  and  $y = -1/3x + 1$ .

**What is the equation for parallel and perpendicular lines?** Parallel lines have the same slope. Perpendicular lines have slopes that are opposite reciprocals. In other words, if  $m=ab$ , then  $m=?ba$ .

**Is perpendicular to explain?** A line is said to be perpendicular to another line if the two lines intersect at a right angle. Explicitly, a first line is perpendicular to a second line if (1) the two lines meet; and (2) at the point of intersection the straight angle on one side of the first line is cut by the second line into two congruent angles.

**How do you tell if lines are parallel or perpendicular with points?**

**What line is perpendicular to  $y = 3/4x + 9$ ?** The slope of the line  $y=3/4x +9$  is  $3/4$ . Therefore ALL lines with a slope of  $-4/3$  are perpendicular to this line.

**Is  $y = 3x - 7$  parallel or perpendicular?** Expert-Verified Answer The given lines  $y = 3x - 7$  and  $y = 3x + 1$  are parallel. This conclusion is reached by comparing their slopes, which are both 3. In mathematical terms, two straight lines are parallel if they have exactly the same slope.

**How to teach parallel and perpendicular lines?**

**How to calculate a perpendicular line?** Perpendicular lines have opposite-reciprocal slopes, so the slope of the line we want to find is  $1/2$ . Plugging in the point given into the equation  $y = 1/2x + b$  and solving for  $b$ , we get  $b = 6$ . Thus, the equation of the line is  $y = 1/2x + 6$ .

**What are parallel and perpendicular lines 8th grade?** What are Parallel and Perpendicular Lines? Parallel lines are those lines that do not intersect at all and are always the same distance apart. Perpendicular lines are those lines that always intersect each other at right angles.

**What are 5 examples of perpendicular lines?**

**What is the symbol for parallel?** The symbol for parallel is  $\parallel$ . The symbol for angle is  $\angle$ . The symbol for perpendicular is  $\perp$ . The symbol for congruent is  $\cong$ .

**What is the symbol for perpendicular lines?** Perpendicular lines are represented by the symbol, ' $\perp$ '. Suppose,  $l_1$  and  $l_2$  are two lines intersecting each other at 90 degrees, then they are perpendicular to each other and are represented as  $l_1 \perp l_2$ . The point of intersection is called the foot of the perpendicular.

**What is the rule for identifying perpendicular lines?** Step 1: Identify the slope of both of your equations. Step 2: Compare the slope values for both of your equations. If the slope values are the same, then the two lines are parallel. If one of the slope values is the negative reciprocal of the other, then the two lines are perpendicular.

**What do parallel and perpendicular lines look like?** Parallel lines are lines that never intersect, and they form the same angle when they cross another line. Perpendicular lines intersect at a 90-degree angle, forming a square corner.

**How can a line be both parallel and perpendicular?** To address this interrogative, a pair of lines cannot simultaneously be parallel and perpendicular. It is impossible because parallel lines never cross, while perpendicular lines must intersect.

**How to find the slope of a perpendicular line?** The slopes of two perpendicular lines are negative reciprocals of each other. This means that if a line is perpendicular to a line that has slope  $m$ , then the slope of the line is  $-1 / m$ . For example, we found that the slope of the line  $y = (1/2)x + 3$  is  $1/2$ .

## How to find an equation of a line?

**What is the relationship between the slopes of parallel lines?** The slopes of parallel lines are equal, and the slopes of perpendicular lines are opposite reciprocals. This is a worked example of determining whether given lines are parallel or perpendicular.

## How do you tell if an equation is perpendicular or parallel?

**What is the slope of a line that is parallel to the line  $y = 0$ ?** The slope of a line parallel to X-axis is zero.

**What is a line that is parallel to the y-axis?** A line that is parallel to the y-axis is of the form ' $x=k$ ', where 'k' is any real number and 'k' is the distance of the line from the y-axis. For example, the equation of a line which is of the form  $x = 3$  is a line parallel to the y-axis and is 3 units away from the y-axis.

**What are 5 examples of parallel lines?** The real-life examples of parallel lines include railroad tracks, the edges of sidewalks, rails of a ladder, never-ending rail tracks, opposite sides of a ruler, opposite edges of a pen, eraser, etc.

**What shape has 4 perpendicular lines?** A rectangle and a square both have four right angles and four perpendicular lines.

**What is a real life example of perpendicular lines?** They are perpendicular because they cross at right angles to each other. Railroad tracks are a great example of natural perpendicular lines. Another good example of perpendicular lines in real life is a football field. All four corners of a football field are perpendicular to each other.

**What is the slope of a line parallel to  $Y = -3x + 7$ ?** Algebra Examples The slope-intercept form is  $y = mx + b$   $y = m x + b$  , where m is the slope and b is the y-intercept. Using the slope-intercept form, the slope is  $-3$  . All lines that are parallel to  $y = -3x + 7$  have the same slope of  $-3$  .

**What is  $y = 7$  a equation of a line parallel to?** Since for all the values of x, value of y = 7, therefore, the line will be parallel to x-axis.

**Which line is parallel to  $y = 2x - 7$ ?** The equation  $y = 2x - 7$  is in slope-intercept form ( $y = mx + b$ ), where  $m$  represents the slope of the line. Thus, any line with the same slope of 2 will be parallel to this line. Therefore, any equation of the form  $y = 2x + b$  represents a line that is parallel to  $y = 2x - 7$ .

**What is a perpendicular line?** What is Perpendicular? In Mathematics, a perpendicular is defined as a straight line that makes the right angle (90 degrees) with the other line. In other words, if two lines intersect each other at the right angle, then the lines are perpendicular to each other.

**What is the slope parallel to  $y = -4x + 6$ ?** Algebra Examples Using the slope-intercept form, the slope is  $-4$ . All lines that are parallel to  $y = -4x + 6$  have the same slope of  $-4$ .

**What is the slope of a line parallel to  $y = 6x + 5$ ?** Algebra Examples Using the slope-intercept form, the slope is  $6$ . All lines that are parallel to  $y = 6x + 5$  have the same slope of  $6$ .

**What is the slope of a line parallel to  $y = 3x + 5$ ?** Explanation: Slope of the line  $y = 3x + 5 = m = 3$ . Slope of the line parallel to the given line  $= m = 3$ .

**What is the equation of a line parallel to the Y-axis at a distance of 10 units from it?** Solution: The equation of the straight line parallel to the y-axis is  $x = k$ . Since the distance is 10 units right to the y-axis, the value of  $k$  is positive. Therefore, the equation of the straight line parallel to the y-axis at a distance of 10 units right to the y-axis is  $x = 10$ .

**What is the equation of a line parallel to the line  $2x - y - 7 = 0$  and passing through the intersection?** From the second equation, we can rewrite it as  $y = 2x - 8$ . Therefore, the intersection point of the lines is  $(4, 0)$ . Hence, the equation of the line parallel to the line  $2x - y - 7 = 0$  and passing through the intersection of the lines  $x - y - 4 = 0$  and  $2x - y = 8$  is  $y = 2x - 8$ .

**What is the equation of a line parallel to the Y-axis and passing through the point  $(-3, -7)$ ?** The equation of the line passing through the point  $(-3, -7)$  and parallel to y-axis will be  $x = -3$ . Q.

**What does the slope-intercept form look like?** The equation of the line is written in the slope-intercept form, which is:  $y = mx + b$ , where  $m$  represents the slope and  $b$  represents the y-intercept. In our equation,  $y = 7x + 4$ , we see that the y-intercept of the line is 4.

**What is the y-intercept of  $y = 2x + 7$ ?** For all straight line equations as the one above, the equation is  $y = mx + c$  where:  $m$  is the gradient,  $c$  is the y-intercept. Thus from the arrangement of the given equation, gradient = 2 and y-intercept = 7.

**What is the equation of the line parallel to the Y-axis at a distance of 5 units from it to its left?** The correct Answer is:  $x = -5$  or  $x + 5 = 0$  Step by step video, text & image solution for Write the equation of line parallel to Y-axis and at a distance of 5 units to its left. by Maths experts to help you in doubts & scoring excellent marks in Class 10 exams.

**What are 5 examples of perpendicular lines?**

**What is the symbol for parallel?** The symbol for parallel is  $\parallel$ . The symbol for angle is  $\angle$ . The symbol for perpendicular is  $\perp$ . The symbol for congruent is  $\cong$ .

**What is the symbol of a perpendicular line?** Perpendicular Symbol ( $\perp$ )

**Surat Permohonan Penutupan Rekening Bank Perusahaan: Tanya Jawab Penting**

**1. Apa itu Surat Permohonan Penutupan Rekening Bank Perusahaan?**

Surat Permohonan Penutupan Rekening Bank Perusahaan adalah dokumen resmi yang diajukan oleh perusahaan kepada bank untuk meminta penutupan rekening bank perusahaan tersebut. Surat ini diperlukan ketika perusahaan tidak lagi membutuhkan rekening bank tersebut atau ingin memindahkan dana ke bank lain.

**2. Apa saja Informasi yang Diperlukan dalam Surat Permohonan?**

Surat permohonan penutupan rekening bank perusahaan harus memuat informasi berikut:

- Nama dan alamat perusahaan

- Nomor rekening yang akan ditutup
- Alasan penutupan rekening
- Tanggal efektif penutupan
- Nama dan tanda tangan pejabat yang berwenang

### **3. Siapa yang Dapat Mengajukan Surat Permohonan?**

Surat permohonan penutupan rekening bank perusahaan dapat diajukan oleh pejabat yang berwenang, seperti:

- Direktur
- Komisaris
- Manajer Keuangan

Pejabat tersebut harus memiliki kewenangan untuk mengelola keuangan perusahaan.

### **4. Bagaimana Cara Mengajukan Surat Permohonan?**

Surat permohonan penutupan rekening bank perusahaan dapat diajukan secara tertulis atau online melalui situs web atau aplikasi perbankan. Perusahaan perlu memastikan bahwa surat tersebut ditandatangani oleh pejabat yang berwenang dan diserahkan ke cabang bank yang terkait.

### **5. Apa yang Terjadi Setelah Surat Permohonan Diajukan?**

Setelah surat permohonan diajukan, bank akan memproses permintaan tersebut. Bank akan memeriksa saldo rekening dan memastikan bahwa tidak ada transaksi yang belum diselesaikan sebelum menutup rekening. Jika tidak ada masalah, bank akan menutup rekening pada tanggal efektif yang telah ditentukan dalam surat permohonan. Perusahaan akan menerima konfirmasi penutupan rekening dari bank.

## **Yellow FIDIC Document: A Comprehensive Guide**

### **What is the FIDIC Yellow Book?**

The FIDIC Yellow Document, also known as the FIDIC Conditions of Contract for Plant and Design-Build, is a standard form contract used for construction projects

involving the design, supply, and installation of plant and equipment. It provides a comprehensive framework for managing the contractual relationship between the Employer and the Contractor.

### **What are the key provisions of the Yellow Book?**

The Yellow Book includes provisions covering a wide range of aspects, including:

- The project scope and specifications
- Contract payments and financial arrangements
- Risk allocation between the parties
- Time management and delays
- Dispute resolution mechanisms

### **Who should use the Yellow Book?**

The Yellow Book is suitable for projects where the Contractor is responsible for both the design and construction of a plant or facility. It is commonly used in industries such as power generation, manufacturing, and infrastructure development.

### **What are the benefits of using the Yellow Book?**

The Yellow Book offers several benefits, including:

- Standardization: It provides a well-established framework for contract management, reducing uncertainty and ambiguity.
- Risk allocation: The provisions clearly allocate risks between the parties, ensuring fair contractual treatment.
- Flexibility: The Yellow Book can be tailored to specific project requirements through the use of special provisions.

### **Conclusion**

The FIDIC Yellow Document is a valuable tool for managing complex construction projects involving plant and design-build. Its comprehensive provisions provide a balanced and fair contractual framework that helps to ensure the successful completion of projects. By understanding the key features and benefits of the Yellow

Book, parties can effectively navigate the contractual relationship and minimize the potential for disputes.

**What are the principles of media law?** Media law requires legislatures to carefully balance the freedom of press with national interests such as safety and security or the spread of misinformation.

**What are the 4 basic principles of the law?** What are the 4 rules of law? The four rules of law are accountability, open government, just law, and accessible and impartial justice. These ensure that government officials are not above the law, that decisions are transparent, that laws are fairly designed, and that the law is impartially enforced.

**What are the 4 laws of media?** the Laws of Media: the effects of media can be described by the four laws of enhancement, obsolescence, retrieval and flip or reversal as described above. the limits of its potential reverses or flips into an opposite or complementary form.”

**What are the five principles of media relations?**

**What does media law focus on?** Media Law is defined as "The legislation through which governments regulate the mass media. It includes issues of censorship, copyright, defamation, broadcast law, and antitrust law.

**What is the basic principle of media ethics?** While various codes may differ in the detail of their content and come from different cultural traditions, most share common elements including the principles of truthfulness, accuracy and fact-based communications, independence, objectivity, impartiality, fairness, respect for others and public accountability, as ...

**What are the four principles of media design?** Maintaining your creativity when designing content can be a challenge. Luckily, there are four major design principles that can help guide your ideas. These principles are contrast, repetition, alignment, and proximity.



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