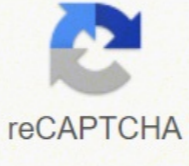




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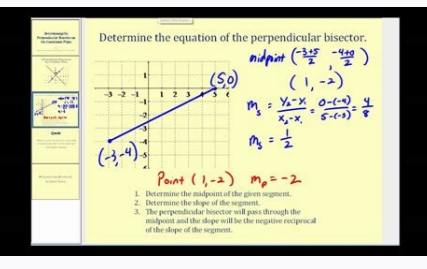
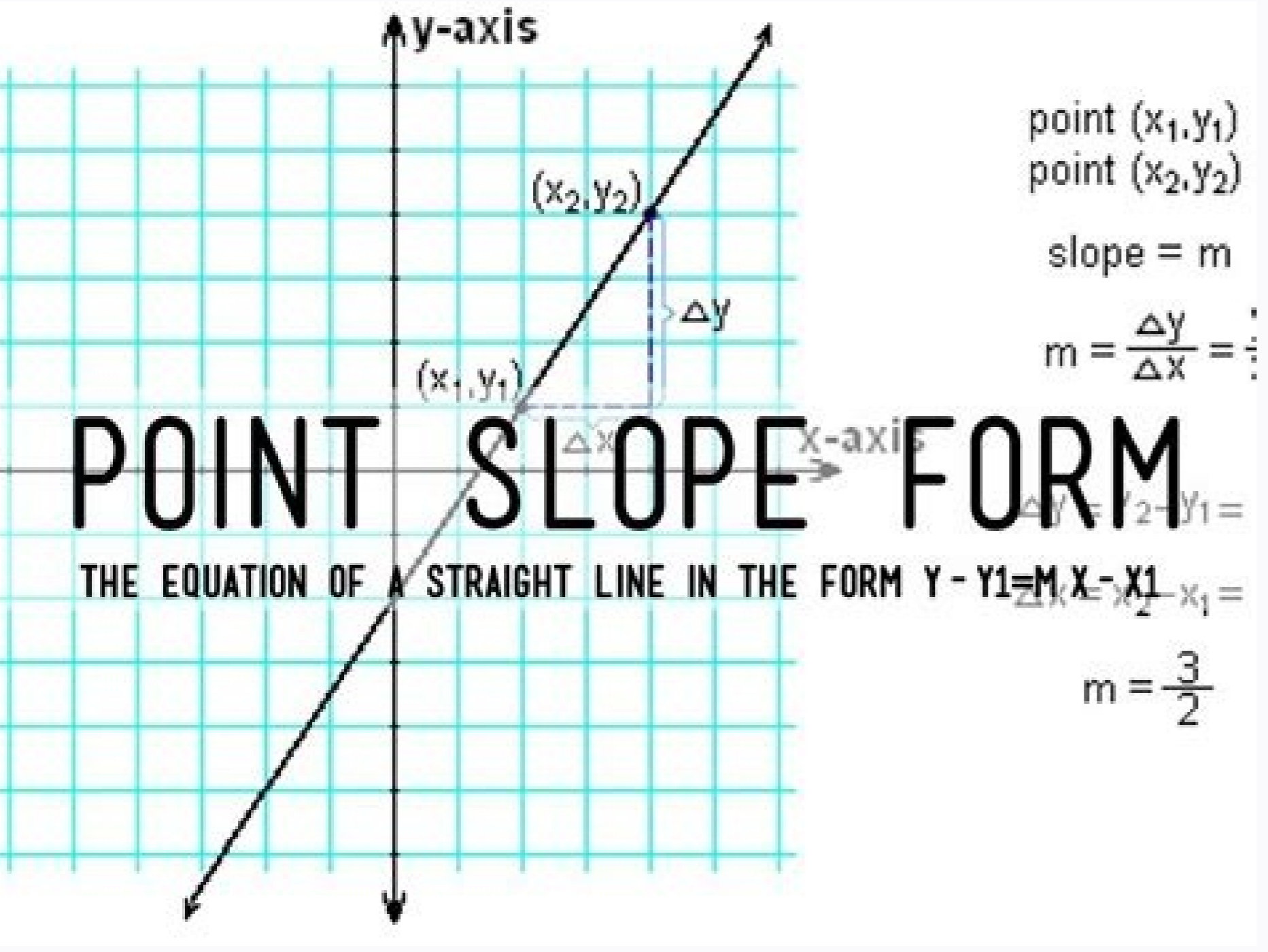
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Slope intercept form perpendicular bisector

Writing Slope-Intercept Form Given the Perpendicular Line and a Point
 What is the equation of a line that passes through the point (2,3) and is perpendicular to the line $y = 2x + 1$?

(A) $y = 2x + 1$
 (B) $y = x + 3$
 (C) $y = -\frac{1}{2}x + 6$
 (D) $y = \frac{1}{2}x + 4$

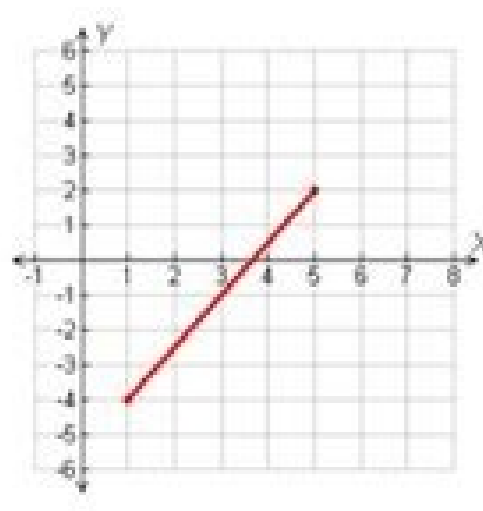
Point-Slope Formula
 Please find the equation of the line that is perpendicular to the given line that intersects the given point.
 Perpendicular lines have opposite reciprocal slopes. $y = \frac{2}{3}x + 3$ $(-14, 8)$
 $m = -\frac{3}{2}$ $\Delta x = -\frac{2}{3}$
 $y - y_1 = m(x - x_1)$
 $y = mx + b$



Check It Out! Example 4

Write an equation in point-slope form for the perpendicular bisector of the segment with endpoints $P(5, 2)$ and $Q(1, -4)$.

Step 1 Graph PQ .



The perpendicular bisector of \overline{PQ} is perpendicular to \overline{PQ} at its midpoint.

What is the equation in slope-intercept form of the perpendicular bisector of the given line segment. What is the equation in slope intercept form of the perpendicular bisector. Write an equation in slope intercept form for the perpendicular bisector. How to find the slope intercept form of a perpendicular bisector.

Since the product of slopes of two perpendicular lines is -1 , we have: $m_1 \cdot m_2 = -1$, where m_2 is the slope of the perpendicular bisector. Perpendicular line equation calculator used to find the equation of perpendicular bisector. It is also known as angle bisector. It is a line, ray, or segment which cuts another line segment into two equal parts at 90 degrees. Therefore for $AB = -1/0.4 = -2.5$ Step 4: Once we find the equation with the slope and the midpoints. Start with finding the midpoint of the given points and then use this point to find the equation of line perpendicular to the line formed by the given two points. Complete step-by-step answer: Let the given points $(7, 1)$ and $(3, 5)$ be A and B respectively. Also suppose point M is the midpoint of points $A(7, 1)$ and $B(3, 5)$. Perpendicular Bisector of a Triangle If a line is perpendicular to the side of a triangle and crossing it through the midpoint, it will be the perpendicular bisector of a triangle. And we know that the coordinates of midpoint of two points $M(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2})$ and $N(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2})$. So the coordinates of points M are $(\frac{7+3}{2}, \frac{1+5}{2}) = (5, 3)$. Further, we know that the slope of line joining two points (x_1, y_1) and (x_2, y_2) is $\frac{y_2 - y_1}{x_2 - x_1}$. Therefore, the slope of the line joining points A and B is $m = \frac{5-1}{3-7} = \frac{4}{-4} = -1$. Perpendicular bisector of points A and B will be the line perpendicular to AB . References: Hint: Perpendicular bisector is a perpendicular line which passes through the midpoint of the line joining the given two points. Midpoint of a line $= \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$ Midpoint of $PQ = \frac{3+6}{2}, \frac{4+6}{2} = (9/2, 10/2)$ Step 2: Next, we need to find the slope of the line PQ using the formula $y_2 - y_1 / x_2 - x_1$. Consider the co-ordinates of the points P and Q to be x_1, y_1 and x_2, y_2 respectively. Perpendicular Bisector of a Rhombus The diagonals of a rhombus are the perpendicular bisector of each other dividing the sides of the rhombus into two equal parts. Perpendicular Bisector of a Circle If a line is perpendicular to a chord of a circle and passes through the midpoint of that circle, it will be the perpendicular bisector of a circle. See the figure below: Use the perpendicular line calculator to calculate the perpendicular bisector equation. The perpendicular bisector equation can be effortlessly calculated using the perpendicular bisector calculator. Example: Lets find perpendicular bisector equation with points $P(3,4)$, $Q(6,6)$. Perpendicular Bisector of a line segment If a line is perpendicular to another line and dividing into two equal parts, it will be a perpendicular bisector of a line segment. What is a perpendicular bisector? What is perpendicular? Slope of $PQ (m) = \frac{6-4}{6-3} = \frac{2}{3} = 0.6667$ Step 3: Now, let's calculate the slope of the perpendicular bisector (AB) of the line PQ . How to find perpendicular bisector? $m_1 \cdot m_2 = -1 \Rightarrow m_2 = -1/m_1 = -1/(2/3) = -3/2$ Perpendicular bisector will pass through the points A and B i.e. point M . In this case, the perpendicular bisector is eventually a line passing through point $M(4.5, 5)$ and having slope $m = -1.5$. According to point slope form of equation of line, if a line of slope m is passing through a point (x_1, y_1) , its equation is $y - y_1 = m(x - x_1)$. So, using point slope form of the equation of line, the equation of perpendicular bisector is: $y - 5 = -1.5(x - 4.5) \Rightarrow y - 5 = -1.5x + 6.75 \Rightarrow y = -1.5x + 11.75$. Thus the equation of the perpendicular bisector is $y = -1.5x + 11.75$. Note: In the above problem, we have used point slope form to find the equation of line. If the line is passing through two known points (x_1, y_1) and (x_2, y_2) , then its equation is: $y - y_1 = \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$. There are various other ways to find the equation of line. Kindly note that the slope is represented by the letter 'm'. Constructing a perpendicular bisector could be convenient if you know how to use a compass? We can use different methods as per the data available to us. Lets find the equation of the AB with midpoints $(9/2, 10/2)$ and the slope -2.5 . Formula to find the equation: $y - y_1 = m(x - x_1)$ $y - 10/2 = -2.5(x - 9/2)$ By solving the above, we get the equation $y - 5 = -2.5(x - 9/2)$. These are the questions we are going to answer in this space. The slope of the perpendicular bisector $= -1/\text{slope of the line}$. We need to calculate the midpoints of the line PQ , which is F , and the slope to find the equation of the perpendicular bisector. This is the perpendicular bisector equation (AB) of the line PQ . compound interest allows your money to earn even more money over time. Step 1: Lets calculate the midpoint of the line which is the average of the x and y co-ordinates. How to find a perpendicular line? Perpendicular bisector definition Perpendicular Bisector is the division of something into two equal or congruent parts. The bisector can either cross the line segment it bisects, or can be a line segment or ray that ends at the line.

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