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Parallel lines worksheet answers

Problem 1: The slope of the two lines is 7 and (3k + 2). If the two lines are parallel, look for k.Problem 2:If the equation for the next two lines is parallel, look for k. $3x + 2y - 8 = 0(5k + 3)x + 2y + 1 = 0$ Probléma 3 :Find the equation of the straight ,2, 3) and parallel to the line $2x - y + 7 = 0$. Problem 4 : Check that the equations of the following two lines are parallel. $3x + 2y - 7 = 0y = -1.5x + 4$ Problem 5 : Check whether the equations of the next two lines are parallel. $5x + 7y - 1 = 010x + 14y + 5 = 0$ Probléma 6 :In the figure below, lines l1 and l2 are parallel and m is transverse. If $\angle F = 65^\circ$, look for the measurement of each remaining angle. Problem 7: In the figure below, lines l1 and l2 should be parallel and t transverse. Find the value of x. Problem 8: In the figure below, lines l1 and l2 are parallel and t is transverse. Find the x. Detailed Response Key 1. If the two lines are parallel, look for the value k. Workaround If two lines are parallel, the slopes are equal. Then $3k + 2 = 7$ Subtract 2 from both sides. $3k = 5$ Share both sides by 5. $k = 5/3$ Probing 2 :If the following two line formulas are parallel, then look for k. $3x + 2y - 8 = 0(5k + 3)x + 2y + 2y + 0$ Respeed : If the two rows are parallel, the general equation forms differ only in the constant term, and there will be the same co-plicants x and y. To find the value of k, you need to equal the x. $5k + 3 = 3$ Subtract 3 co-plicants from both sides. $5k = 0$ Set both sides 5. $k = 0$ Probléma 3 :Find the equation with a straight pass (2, 3) and parallel to the line $2x - y + 7 = 0$. Solution :Because the required row is parallel to $2x - y + 7 = 0$, the equation of the required line and the equation for that row is $2x - y + 7 = 0$ differs only in the constant expression. Then the equation of the required row is $2x - y + k = 0$ -----(1)The required line passes (2,3). Substitute x = 2 and y = 3 in (1). $2(2) - 3 + k = 04 - 3 + k = 01 + k = 0k = -1$ S, equation of the required line (1)-----> $2x - y - 1 = 0$ Probléma 4 :Check that the following equations are two rows parallel. $3x + 2y - 7 = 0y = -1.5x + 4$ Solution: In the equation of the two rows specified, the equation of the second row is not in a generic form. Enter the equation for the second row in general form. $y = -1.5x + 41.5x + y - 4 = 0$ Realization by 2 on each side, $3x + 2y - 8 = 0$ Now compare the equations of the two rows, $3x + 2y - 7 = 03x + 2y - 8 = 0$ A the two equations above differ only in the constant term. So the equations of the given two lines Parallel. Problem 5: Make sure that the equations of the following two lines are parallel. $5x + 7y - 1 = 010x + 14y + 5 = 0$ Resed: In the equation of the second row, $10x + 14y + 5 = 0$, the common divider of the x and y factor is 2. So divide the second equation by 2($10x/2 + (14y/2) + (5/2) = (0/2)5x + 7y + 2.5 = 0$ Now, Compare the equations with two rows, $5x + 7y - 1 = 05x + 7y + 2.5 = 0$ A above two equations differ only in the constant term. So the equations for those two lines are parallel. Problem 6: In the figure below, lines l1 and l2 are parallel and m is transverse. If $\angle F = 65^\circ$, look for the measurement of each remaining angle. Workaround : From a given number, $\angle F$ and $\angle H$ are vertically opposite angles and are equal. Then $\angle H = \angle F$ -----> $\angle H = 65^\circ$ $\angle H$ and $\angle D$ corresponding angles and are equal. Then $\angle D = \angle H$ -----> $\angle D = 65^\circ$ $\angle D$ and $\angle B$ vertically opposite angles and are equal. Then $\angle B = \angle D$ -----> $\angle B = 65^\circ$ $\angle F$ and $\angle E$ together form a straight angle. Then $\angle F + \angle E = 180^\circ$ Plug $\angle F = 65^\circ$ $\angle F + \angle E = 180^\circ65^\circ + \angle E = 180^\circ\angle E = 115^\circ$ $\angle E$ and $\angle G$ vertically opposite angles and equals. Then $\angle G = \angle E$ -----> $\angle G = 115^\circ$ $\angle G$ and $\angle C$ corresponding angles and equals. Then $\angle C = \angle G$ -----> $\angle C = 115^\circ$ $\angle C$ and $\angle A$ vertically opposite angles and are equal. Then $\angle A = \angle C$ -----> $\angle A = 115^\circ$ Therefore $\angle A = \angle C = \angle E = \angle G = 115^\circ$ $\angle B = \angle D = \angle F = \angle H = 65^\circ$ Problem 7 :In the figure below, lines l1 and l2 should be parallel and t transversal. Find the x. Solution value: According to the number given, $\angle(2x + 20)^\circ$ and $\angle(3x - 10)^\circ$ are the corresponding angles. So they're equal. Then there is $(2x + 20)^\circ = \angle(3x - 10)^\circ$ $2x + 20 = 3x - 10$ Subtract 2x from both sides. $20 = x - 10$ Add 10 to each side. $30 = x$ Probléma 8 :In the figure below, lines l1 and l2 should be parallel and t transverse. Find the value of x. Solution: The given number, $\angle(3x + 20)^\circ$ and $\angle2x^\circ$ consecutive inner angles. So they're complementary. Then there is $(3x + 20)^\circ + 2x^\circ = 180^\circ$ $3x + 20 + 2x = 180$ Simplify. $5x + 20 = 180$ Subtract 20 from both sides. $5x = 160$ Strial on both sides $8.x = 32$ Apart from the things specified above, if you need other things in math, please use google custom search here. If you have any feedback on our math content, please email us at v4formath@gmail.com! always appreciate your feedback. You can also visit the following websites for different things about mathematics. 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