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Name: _____
Parallel and Perpendicular Lines

Part I – The following sets of lines are either parallel or perpendicular.
Check the correct box for each set of lines.

☐ parallel
☐ perpendicular

☐ parallel
☐ perpendicular

☐ parallel
☐ perpendicular

☐ parallel
☐ perpendicular

☐ parallel
☐ perpendicular

☐ parallel
☐ perpendicular

Part II – Draw the correct line to complete each set.

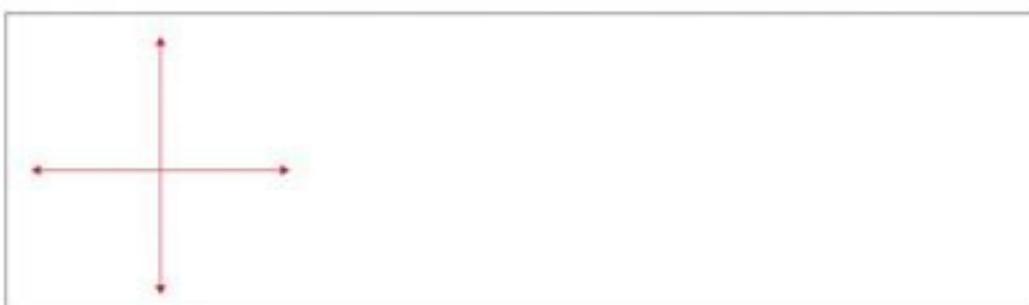perpendicular   parallel   perpendicular

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Name_____ Date_____
Learning Target: I can identify parallel and perpendicular lines by labeling
Direction: label the following lines.

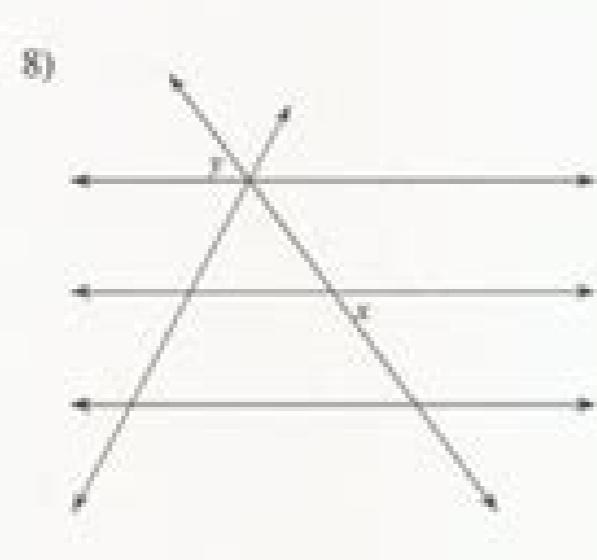Label each pair of lines perpendicular or parallel.

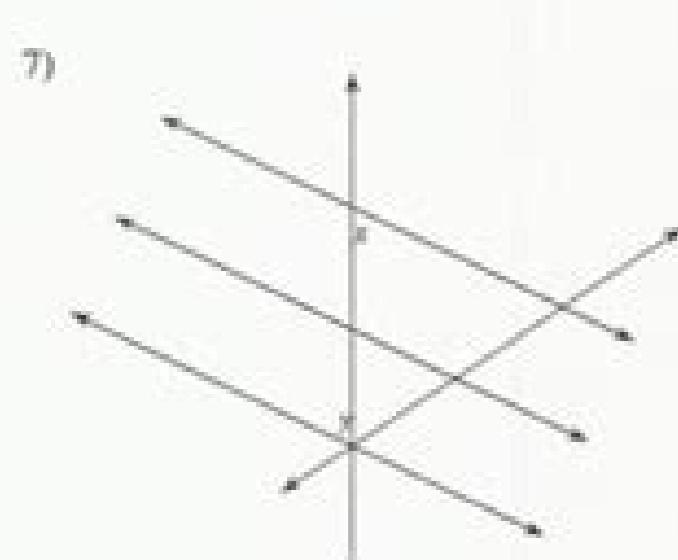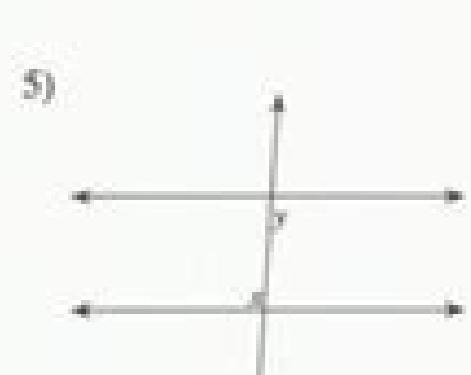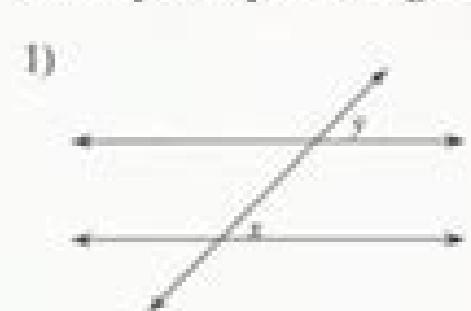**LIVEWORKSHEETS**

Kuta Software - Infinite Geometry   Name_____

Parallel Lines and Transversals   Date_____ Period_____

Identify each pair of angles as corresponding, alternate interior, alternate exterior, or consecutive interior.

1)

2)

3)

4)

5)

6)

7)

8)

-1-

1. Graph each pair of lines on the same grid. Find the slope of each line. State whether the lines are parallel, perpendicular, or neither.

a) $y = \frac{1}{3}x + 2$ $y = \frac{1}{3}x - 1$

b) $y = \frac{4}{3}x + 3$ $y = -\frac{4}{3}x$

c) $y = 2x - 4$ $2x - y = 3$

d) $x - 4y + 2 = 0$ $y = -4x + 1$

2. The slopes of pairs of lines are given. Are the lines in each pair parallel, perpendicular, or neither?

a) $m = \frac{3}{7}$ $m = \frac{7}{3}$

b) $m = 1$ $m = -1$

c) $m = -2$ $m = -2$

d) $m = -3$ $m = \frac{1}{3}$

e) $m = \frac{-3}{4}$ $m = \frac{5}{4}$

f) $m = -\frac{1}{4}$ $m = \frac{3}{4}$

g) $m = \frac{4}{5}$ $m = 0.8$

h) $m = \frac{3}{8}$ $m = -2\frac{2}{3}$

3. Find the slope of each line. Are the lines in each pair parallel, perpendicular, or neither?

a) $y = \frac{1}{4}x + 4$ $y = \frac{x}{4}$

b) $y = \frac{1}{3}x + 2$ $y = \frac{4}{3}x - 2$

c) $0 = 3x - y + 5$ $y = -3x - 1$

d) $x - 6y + 24 = 0$ $6x + y = 0$

e) $y = 3x + 4$ $6x - 2y = 10$

f) $x - y = 5$ $x + y = 1$

4. What is the slope of a line that is parallel to each line?

a) $y = 2x + 1$

b) $5x + y - 3 = 0$

c) $x - 3y = 4$

d) $y + 3 = 4x$

5. What is the slope of a line that is perpendicular to each line?

a) $y = \frac{3}{2}x - 3$

b) $2y - 4y + 1 = 0$

c) $y = 2x$

d) $6 - x + 2y = 0$

6. Write the equation of a line that is parallel to $4x + 3y = 1$.

7. Write the equation of a line that is perpendicular to $x - 5y = 2$.

Answers on lkueh.wordpress.com
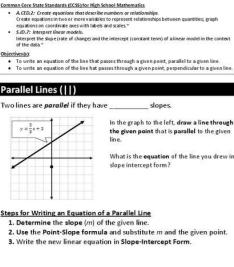
Geometry unit 3 parallel and perpendicular lines worksheet answers. Geometry chapter 3 parallel and perpendicular lines worksheet answers. Writing equations of parallel and perpendicular lines worksheet answers geometry. Parallel and perpendicular lines worksheet answers key geometry pdf. Unit 3 parallel and perpendicular lines worksheet answers key geometry. Answer key geometry chapter 3 parallel and perpendicular lines worksheet answers.

For example, if the equation of two lines Ä¨ data as, y = 4x + 3 and y = 4x - 5, we can see that their slope Ä¨ equals (4). a.) False, the letter A does not have a set of perpendicular lines because the intersecting lines do not meet each other at right angles. B) Sandwiches: the highlighted lines in the sandwich are nÂ© parallel nÂ© perpendicular lines. The following table shows the difference between parallel and perpendicular lines. They are always the same distance apart and are equidistant lines. On the other hand, when two lines intersect each other at an angle of 90 Â°, they are known as perpendicular lines. In a square, there are two pairs of parallel lines and four pairs of perpendicular lines. For example, the letter H, where the vertical lines are parallel and the horizontal line Ä¨ perpendicular to both vertical lines. The opposite sides are parallel and the intersecting lines are perpendicular. Solution: we need to know the properties parallel and perpendicular lines to identify them. These lines can be identified as parallel lines. Examples of perpendicular lines: The letter L, the union walls of a room. b.) The opposite sides of a rectangle are parallel lines. There are some letters in the English alphabet that have parallel and perpendicular lines. Property of parallel lines: parallel lines are always equidistant from each other. The perpendicular lines are those that always intersect each other at right angles. Observe the horizontal lines in E and Z and the vertical lines in H, M and N to notice the parallel lines. (c) False and parallel lines do not intersect at all, only perpendicular lines intersect at 90 Â°. Similarly, observe the intersecting lines in the letters L and T that have perpendicular lines in them. Example 2: true or false state using properties parallel and perpendicular lines. For example, if the of two lines have been assigned as, y = -3x + 6 and y y -3x - 4, we can see that the slope of both lines is the same (-3). Privacy of perpendicular lines: perpendicular lines always intersect at right angles. In this case, the negative reciprocal of -4 is 1/4 and vice versa. How many parallel and perpendicular lines are there in a square? For example, the opposite sides of a square and a rectangle have parallel lines and adjacent lines in the same forms are perpendicular lines. For negative reciprocity it means that if (m_1) and (m_2) are mutual negative one of the other, their product will be -1. There are many forms around us who have parallel lines and perpendicular to them. What are the slopes of parallel and perpendicular lines? While, if the slopes of two dates are mutual negative one of the other, they are considered perpendicular lines. The perpendicular lines are those lines that always intersect at the right angle. In other words, if the slope of two lines is the same, they are identified as parallel lines, while, if the slope of two dates are reciprocal negative one of the other, are identified as perpendicular lines. For example, AB || CD means that the AB line is parallel to the CD line. Related topics: examine the following pages relating to parallel and perpendicular lines. Intersection lines Parallel lines Example 1: Observe the lines highlighted in blue in the following examples and identify them as parallel or perpendicular lines. The perpendicular lines are intersecting lines that are always encountered with an angle of 90th. For example, if the two-line equation is given as, y = 1 / 5x + 3 and y = - 5x + 2, we can see that the slope of a line is the mutual negative of the other.

[... block of reversed/garbled OCR text ...]

as (m_1 = m_2), where (m_1) and (m_2) are the slopes of two parallel lines. a) Ruler: The lines highlighted in the scale (ruler) does not intersect or meet directly, and are distant the same distance, so they are parallel lines. The perpendicular lines do not have the same slope. Equations of parallel lines and perpendicular The equation of a straight line is represented as Y = AX + B which defines the slope and the intercept y. intercept-y.

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