Accel. Geometry Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Writing Equations of Parallel and Perp. Lines Date \_\_\_\_\_\_\_\_\_\_\_\_

1. Find the slope of the line passing through (3, -5) and (-7, 2)

2. Find the slope of the line 5y = 3x – 7 3. Find the slope of the line 2x + 3y – 9 = 0

4. Determine whether the lines AB and CD are parallel, perpendicular or neither for

1. A (1, 1), B (-1, -5), C (3, 2), D (6, 1)
2. A (3, 6), B (-9, 2), C (5, 4), D (2, 3)
3. A (14, 13), B (-11, 0), C (-3, 7), D (-4, -5)

5. Find the equation of the line passing through (-2, 5) and parallel to the line y = 3x + 4

6. Passing through (-2, 5) and parallel to the line 

7. Passing through (4, -5) and perpendicular to the line y = -7x -4

8. Passing through (4, -5) and perpendicular to the line 

9. Passing through (3, -4) and parallel to the line which passes through (2, 4), (5,6)

10. Passing through (7, 3) and perpendicular to the line which passes through (-2,-3), (-1,5)

11. Here are some equations of lines. Which four lines form the sides of a rectangle? Explain your reasoning.

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| --- | --- | --- | --- | --- |
| $$y+2x=8$$ | $$2y+\frac{1}{2}x+1=0$$ | $$2y+x=1$$ | $$y=x-4$$ | $$y=2(x-1)$$ |
| $$2y=x-4$$ | $$y+2x+2=0$$ | $$y=\frac{1}{2}x+2$$ | $$y=4-x$$ | $$2y=4-x$$ |

12. Complete the drawing below to show the four lines and the x and y axes. Label the lines clearly.

