

# Hand In Assignment

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Name: \_\_\_\_\_

Total: \_\_\_\_\_/30

**Record answers on a separate sheet of paper.**

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1. Calculate the distance between A(3, 7) and B(-1, -5). (1 mark)
2. A rectangle has vertices A(-4, 4), B(-4, -2), C(7, -2) and D(7, 4).
  - a) Find the perimeter. (5 marks)
  - b) Find the area. (2 marks)
3. Find the midpoint of C(-6, 2) and D(4, 8). (1 mark)
4. The midpoint of line segment XY is M(2, 2). If one endpoint is X(-2, -1), find the missing endpoint Y. (2 marks)
5. The points P(1, 4), Q(-1, -2), and R(4, -3) are given. Determine the coordinates of a point S so that RS is parallel to PQ and S is on the  $x$ -axis. (3 marks)

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**Write an equation in standard form for each line: (2 marks each)**

1. Passing through (3, 4);  $m = \frac{2}{5}$
2. Passing through (-5, 1) and (1, -3)
3.  $m = \frac{3}{4}$  and a  $y$ -intercept of -3
4. Passing through (-2, 1) and parallel to  $4x - 3y - 7 = 0$
5. Write an equation of the line through (-2, 5) and parallel to the  $y$ -axis.

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**Graph each line using the indicated method. (3 marks each)**

7.  $y = \frac{1}{2}x - 1$ , using slope and  $y$ -intercept
8.  $2x + 3y = 9$ , using  $x$  and  $y$  intercepts