

Name: _____

Show work needed to justify your answer.

Date: _____

HW: # 7: Math IBSL - Standard 7 - Gradient of a Linear Function

5 points

1 Determine whether lines 1 and 2 which pass through the given points are parallel, perpendicular or neither.

a Line 1: (3, 6) and (6, 11)
Line 2: (4, -1) and (9, 2)

b Line 1: (5, -1) and (3, 7)
Line 2: (-1, 4) and (0, 0)

2 Find the gradient of the line passing through the given points:

a (4, 8), (8, 11) **b** (-2, 2), (4, -4)

3 Liam works up to 60 hours each week. His weekly pay, in dollars, depends on the number of hours he works, as shown in the graph.

- a** Find the gradient for each line segment in the graph.
b Explain the meaning of each gradient in the context of Liam's work.

