QUIZ 1 - MATH 112 YOUR NAME:

Read each problem **very carefully** before starting to solve it. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. The following figure describes an interval in graphical notation.



Provide descriptions of the same interval in:

(a) set notation [1 point];

(b) interval notation [1 point].

2. Find the slope of the line ℓ that is parallel to the line ℓ' passing through the points (-9, 15) and (1, -25). [3 points]

3. Find an equation for the line ℓ passing through the point (-1,7) that is perpendicular to the line ℓ' that has equation x + 5y = 10. [5 points]