## QUIZ 1 - MATH 112 YOUR NAME:

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

1. Write in interval notation and graph the set

$$\{x : x \text{ real and } -\frac{5}{2} \le x < 4\}.$$

2. Find an equation for the line L that passes through the point (-4, 7) and is perpendicular to the line L' passing through the points (-3, -9) and (7, 21). Find the y-intercept of L.

3. Evaluate the expression  $\left(-\frac{8}{27}\right)^{-4/3}$ . You may leave your answer in fraction form.