

Practice for Section 1.3

The following problems will help you practice the material you learned today. Once done, you can work on your WeBWork homework. Once you are finished check your solutions.

1. Given the points P (-2,5) and Q(4,-3) write an equation of the line containing P and Q in slope intercept form.
 - a) Determine the midpoint of the segment PQ.
 - b) Write an equation of a line parallel to PQ through the point (0,0)
 - c) Write an equation of a line perpendicular to PQ through the point (-2,5)
 - d) Determine the x and y intercepts of PQ.

2. On the first day of the month, Jonas had \$850 in his bank account. On the 17th he had \$300 with no new deposits. Write an equation which represents the balance (b) in the account as a function of the day of the month(t). Assume he spends fairly steadily. State the slope and tell what it means. State the y-intercept and tell what it means. State the x-intercept and give it meaning. How much did he have on the 10th day? When did he have about \$500?