

Written HW3 – MATH 1530 Fall 2020

Due by 10 September for timely completion credit

A complete solution to these problems will require you to specify the system of equations being solved and to solve it with symbols. Additionally, you should plot the two equations as lines (in Desmos) to show the intersection yields the same solution.

1. You are offered two different sales jobs. The first company offers you a commission of 5% of the sales per week. The other company offers a salary of \$100 per week plus a 2% commission on the sales that week. How much do you have to sell in a week in order for the first company's offer to be as good?
2. A business shipped 120 packages in a day. Customers are charged \$2.00 for each standard-delivery package and \$8.50 for each express-delivery package. The total shipping charges for the day were \$370.00. How many of each kind of package was shipped?