

EXAM 2 - MATH 110

Friday, October 18, 2002

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Read each problem **very carefully** before starting to solve it. Each problem is worth 10 points. It is necessary to show your work. Correct answers without explanations are worth 0 points.

GOOD LUCK!!

1. Find the point of intersection of the line that goes through the points $(1, 3)$ and $(4, 9)$ and of the line that is perpendicular to it and goes through $(2, \frac{15}{2})$.
2. Two competing food stores *Al's Food* and *Bill's Co-op* sell the same brand of wine for \$3 and \$4.50 per bottle, respectively. Both stores gross the same revenue from the sales of this wine but *Bill's Co-op* sells 20 bottles less than *Al's Food*. Can you compute the revenue of the two groceries from the sales of this wine?