**The area, A = f(d) in2, of a circular pizza is a function of the diameter d, in inches. A package of pepperoni costs $1.53 and covers 250 square inches of pizza.**

**Write the formula for f(d).**

**Find a formula for C = g(A), the cost in dollars of adding pepperoni to a pizza of area A in2.**

**Find a formula for C as a function of d.**

**Convert the quadratic function to vertex form by completing the square. Identify the vertex and the axis of symmetry.**

**http://edugen.wileyplus.com/edugen/shared/assignment/test/session.quest1830593entrance1_N10037.mml?size=14&algorithm=1&rnd=1361387393682**

**A baseball is “popped” straight up by a batter. The height of the ball above the ground is given by the function**

**http://edugen.wileyplus.com/edugen/shared/assignment/test/session.quest1830574entrance1_N10033.mml?size=14&algorithm=1&rnd=1361387439827**

**where t is time in seconds after the ball leaves the bat and y is the height of the ball in feet. See the figure below.**

**Find the time at which the ball hits the ground. Also, find the maximum height of the baseball**

**In a college meal plan you pay a membership fee; then all your meals are at a fixed price per meal.**

1. **If 25 meals cost $121.25 and 45 meals cost $174.25 find the membership fee and the price per meal.**
2. **Write a formula for the cost of a meal plan, C in terms of the number of meals, n.**
3. **How many meals will give a cost of $150.00?**

**Line l is given by y = 11 – 4/5x and point P has coordinates (20,9)**

1. **Find the equation of the line containing Pand parallel to l.**
2. **Find the equation of the line containing P and perpendicular to l.**

**State the domain and range of the function**http://edugen.wileyplus.com/edugen/shared/assignment/test/session.quest1830449entrance1_N1003C.mml?size=14&algorithm=1&rnd=1361433597946.

**A trucking company transports goods between Chicago and New York, a distance of 960 miles. The company’s policy is to charge, for each pound, $0.50 per mile for the first 100 miles, $0.40 per mile for the next 300 miles, $0.25 per mile for the next 400 miles, and no charge for the remaining 160 miles.**

**( a ) Construct a piece-wise defined function that models the Cost of transporting goods as function of number of miles, n, where**