NAME:_____

1. Which of these points lie on the plane
   $2x - y - 4z = -6$?

   [A] (0, 0, 2)   [B] (3, 4, 2)

   [C] (1, 12, 0)   [D] (3, 2, 6)

3. Write the equations of a plane that has the
   intercepts (2, 0, 0), (0, 1, 0), and (0, 0, 3).

4. You have $50 to spend on a party. Pizzas
   costs $8.50 each, chips cost $2 per bag and
   soda costs $1.25 per bottle. Write and graph
   an equation for the amount of pizza and soda
   you can buy. Use three variables.

2. Compare the quantity in Column A with the
   quantity in Column B.
   $2x - y - 5z = -20$

Column A	Column B
x - intercept	z - intercept

   [A] The quantity in Column A is greater.

   [B] The quantity in Column B is greater.

   [C] The two quantities are equal.

   [D] The relationship cannot be determined on
       the basis of the information supplied.

[1] B

[2] B

[3] Answers may vary. Sample: $3x + 6y + 2z = 6$

Let x = number of pizzas, y = number of bags
of chips, and z = number of bottles of soda.
$8.5x + 2y + 1.25z = 50$. Check students'

[4] graphs.