NAME:

- 1. Determine whether the graph of -4y = -x+5 and -16x-4y = 9 are perpendicular lines.
- 2. Determine whether the graph of -y = 3x + 11 and -2x 6y = 3 are perpendicular lines.
- 3. Determine whether the graph of 3y = 4x + 14 and 9x + 12y = 6 are perpendicular lines.
- 4. Determine whether the graph of -y = 2x+9 and -2x+4y = 7 are perpendicular lines.
- 5. Determine whether the graph of 4y = 5x + 7 and 12x 15y = 10 are perpendicular lines.
- 6. Determine whether the graph of 3y = -4x + 6 and 6x 8y = 5 are perpendicular lines.
- 7. Determine whether the graph of 2y = 3x + 12 and 6x + 9y = 14 are perpendicular lines.
- 8. Determine whether the graph of -4y = x+13 and -12x+3y = 13 are perpendicular lines.
- 9. Which of the lines is not perpendicular to 2x + y = 8?

- [A] 2y x = 4 [B] x 2y = 3 [C] 2x y = 4 [D]  $y \frac{x}{2} = 6$
- 10. Compare the quantities in Column A and Column B.

Column A

Column B

the slope of a line parallel to

the slope of a line perpendicular to

the line with the equation x - 2y = 1

the line with equation 2x + y = -1

- [A] The quantity in Column A is greater.
- [B] The quantity in Column B is greater.

- [C] The quantities are equal.
- [D] The relationship cannot be determined from the information given.

[1]	The lines are perpendicular.
[2]	The lines are not perpendicular.
[3]	The lines are perpendicular.
[4]	The lines are perpendicular.
[5]	The lines are not perpendicular.
[6]	The lines are perpendicular.
[7]	The lines are perpendicular.
[8]	The lines are perpendicular.
[9]	<u>C</u>

[10] C