Way Cool Algebra
PARALLEL AND PERPENDICULAR

Do NOT Write on Worksheet
Writing Equations - Relations

Without Graphing decide if the lines are Parallel, Perpendicular, or Neither. **Explain why.**

1) $y = 4x - 5\ ;\ y = \frac{1}{4}x + 4$	2) $y = -5x - 8\ ;\ y = 5x + 8$	3) $y = -\frac{3}{5}x + 2\ ;\ y = -\frac{5}{3}x + 8$
4) $y = \frac{1}{3}x - 12\ ;\ y = \frac{1}{3}x - 7$	5) $y = -6x\ \ ;\ y = \frac{1}{6}x + 8$	6) $3y - x = -12\ ;\ 6y + 24 = 2x$
7) $y = 3x - 8\ ;\ 3x - y = -1$	8) $3x + 2y = -10\ ;\ y = \frac{2}{3}x + 6$	9) $y = -\frac{5}{2}x + 11\ ;\ -5x + 2y = 20$
10) $9x + 3y = -12\ ;\ 3x + 9y = 9$	11) $2x + y = 2\ ;\ 6x + y = 4x - 9$	12) $3x - 5y = 15\ ;\ -5x + 3y = 18$

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