

Name: _____

Math is Gold

Date: _____

Topic: Parallel and Perpendicular Lines

(id:lines_para_perp_classify_A)

Title: Classify the system of equations as Parallel, Perpendicular or Neither. Check the correct box.

1) $y = -3x + 5, \quad 3x + y = 9$ Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/>	2) $y = 5x - 3, \quad x + 5y = 7$ Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/>
3) $y = \frac{1}{2}x - 1, \quad y + 2x = 6$ Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/>	4) $y = -\frac{3}{5}x + 1, \quad 5y + 2x = 1$ Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/>
5) $y = -\frac{2}{5}x + 10, \quad 2x + 5y = 4$ Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/>	6) $y = 3x + 9, \quad 9x - 3y = 1$ Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/>
7) $x = -1, \quad y = 3$ Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/>	8) $y + 4 = -3(x - 1), \quad y = \frac{1}{3}x + 5$ Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/>
9) $x = -3, \quad y = 3x$ Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/>	10) $y - 7 = 2(x - 1), \quad 2y - 4x = 5$ Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/>

<p>11) $y = -1, \quad y = 2$</p> <p>Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/></p>	<p>12) $2x = 3y - 5, \quad 4x - 6y = 7$</p> <p>Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/></p>
<p>13) $7x - 8y = 1, \quad 8x + 7y = 5$</p> <p>Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/></p>	<p>14) $y = -7x, \quad y = 7x + 1$</p> <p>Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/></p>
<p>15) $y = -\frac{2}{7}x + 1, \quad 2x + 7y = 5$</p> <p>Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/></p>	<p>16) $y = -\frac{1}{5}x, \quad y = 5x - 2$</p> <p>Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/></p>
<p>17) $y = \frac{1}{7}x + 5, \quad y + 7x = 6$</p> <p>Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/></p>	<p>18) $y - 1 = \frac{2}{3}(x + 9), \quad 3y = 2x - 8$</p> <p>Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/></p>
<p>19) $y - \frac{1}{3} = -2(x + \frac{1}{3}), \quad 2x + y = 3$</p> <p>Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/></p>	<p>20) $y - 7 = 4(x - 2), \quad y + 4x = 9$</p> <p>Parallel <input type="checkbox"/> Perpendicular <input type="checkbox"/> Neither <input type="checkbox"/></p>