Name:_____ **Math is Gold** Date:_____

Topic: Parallel and Perpendicular Lines **(id:lines_eqn_para_perp_k_A.1**

Title: Find the value of the constant k if

1) $y = -3x + 5, \quad kx + y = 9$

are parallel

2) $y = -\frac{2}{5}x + 10, \quad 2x + ky = 4$

are parallel

3) $y = 3x + 9, \quad kx - 3y = 1$

are parallel

4) $2x = 3y - 5, \quad 4x + ky = 7$

are parallel

5) $y = -\frac{2}{7}x + 1, \quad 2x + ky = 5$

are parallel

6) $y = 2x + 5, \quad 5y + kx = 20$

are parallel

7) $3x - y = -9, \quad 2y + kx = -2$

are parallel

8) $7x - 8y = 1, \quad 8x + ky = 5$

are perpendicular

9) $y = kx + 5, \quad y + 7x = 6$

are perpendicular

10) $y = kx, \quad y = 5x - 2$

are perpendicular

11) $y = \frac{1}{2}x - 1, \quad y + kx = 6$

are perpendicular

12) $y = 5x - 3, \quad -x + ky = 7$

are perpendicular

13) $kx + y = 10, \quad y = \frac{1}{2}x - 4$

are perpendicular

14) $y = kx, \quad 2y = -3x + 5$

are perpendicular

15) $2x - 5y = -3, \quad 5x + ky = 7$

are perpendicular