SAT calc allowed

Wednesday 10/03

In the system of equations below, k is a constant. What is the y-value of the solution to the system in terms of k?

$$5x - y = k \quad \text{Line }$$

$$2x + 3y = -1 \quad \text{Line }$$

$$a) \frac{k+1}{5}$$

$$b) \frac{1-3k}{17}$$

$$c) \frac{3k-1}{17}$$

$$d) \frac{-2k-5}{17}$$

$$= \text{Solvtion}$$

$$5 (2x + 3y = -1)$$

$$-10x + 2y = -2k$$

$$|0x + 15x = -5|$$

$$|7y = -2k - 5|$$