Quiz 1: Constrained Optimization

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Shortest distance point from (2,-1) to the straight line x+y=6 is	2 points
(6,0)	
(0,6)	
(9/2,3/2)	
None of the above	

If x* is a local minima of a constrained (inequality & equality) nonlinear programming problem then x^* must be a Fritz John point.	1 point
O True	
○ False	
Lagrange/Fritz-John multiplier corresponding to an inactive inequality may be >0	1 point

2 points

The following system of inequality has non-zero solution:

$$-2d_1 + 3d_2 < 0$$

$$3d_1 - 2d_2 < 0$$

O True

True

False

False

2 points

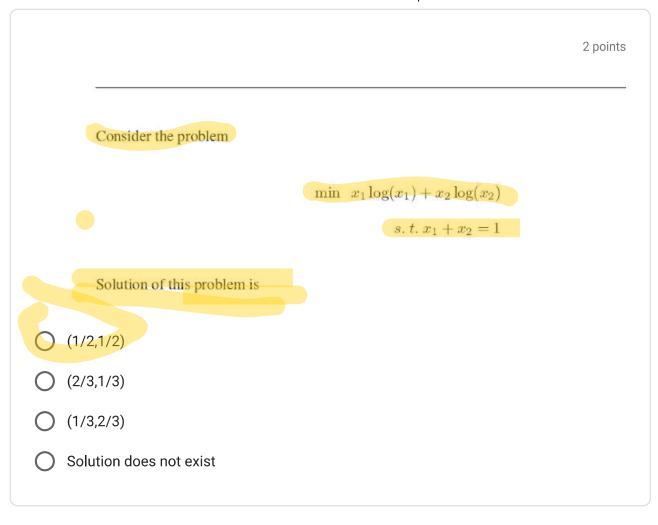
Consider the problem

$$\min (x_1-1)^2+x_2^2$$

$$\min (x_1 - 1)^2 + x_2^2$$
$$2kx_1 - x_2^2 + 5 \le 0$$

For which value of k, $(-1,1)^T$ will be a Fritz-John point of the problem?

- None of the above



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