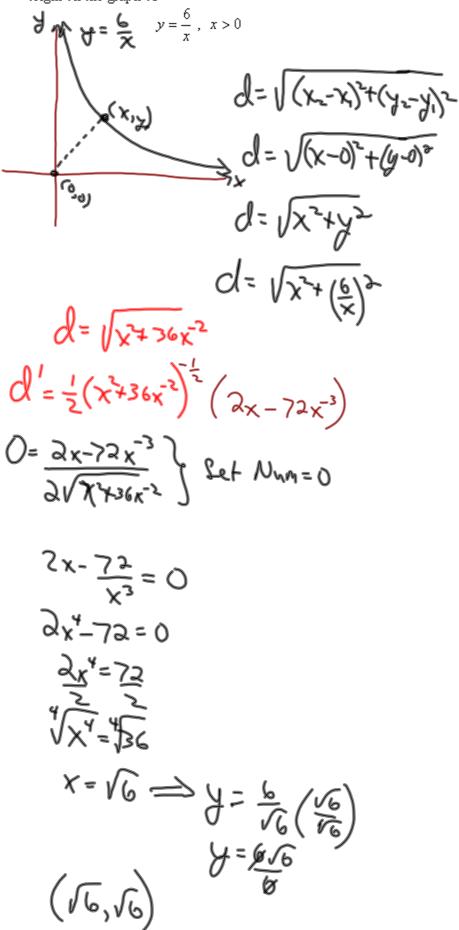
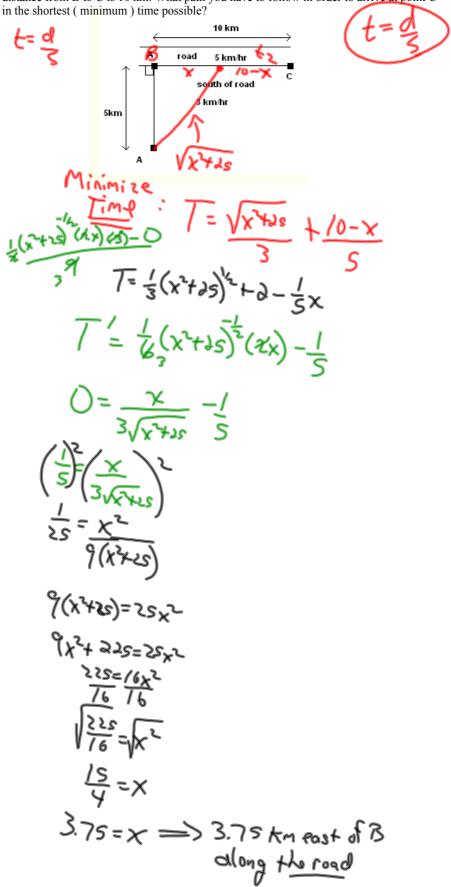
Determine the coordinates of the point closest to the origin on the graph of



Two posts, one 12 feet high and the other 28 feet high, stand 30 feet apart. They are to be stayed by two wires, attached at a single stake, running from ground level to the top of each post. Where should the stake be placed to use the least amount of wire?

Example 5:

You decide to walk from point A (see figure below) to point C. To the south of the road through BC, the terrain is difficult and you can only walk at 3 km/hr. However, along the road BC you can walk at 5 km/hr. The distance from point A to the road is 5 km. The distance from B to C is 10 km. What path you have to follow in order to arrive at point C in the shortest (minimum) time possible?



practice problems...

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#5, 6, 8, 10, 11, 12, 14, 16, 17, 19, 20