Bike repairs

This task is about graphing and solving linear equations.

Adam needs to find someone to mend his mountain bike.
The local bike shop says that this will cost $15 plus $2 per minute of time they spend fixing it.

This can be written as the equation:

$$c = 2t + 15$$

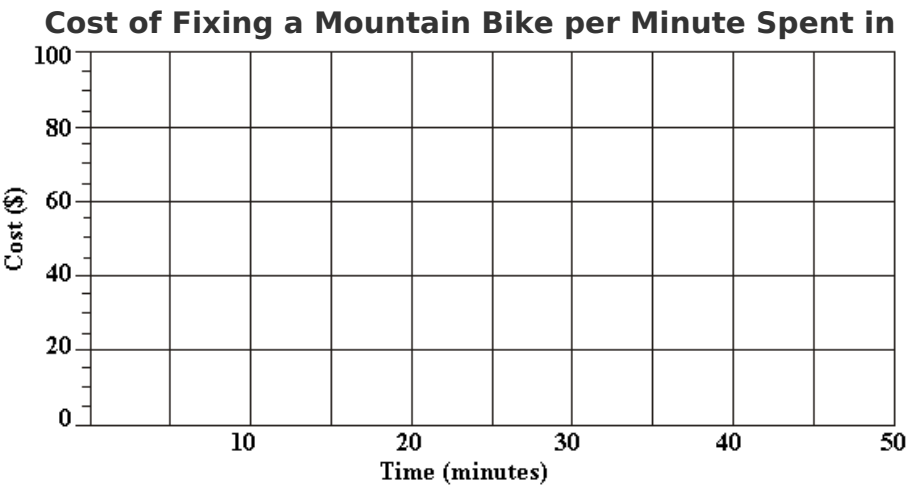where c is the cost in dollars
t is the time spent in minutes

Fill in the costs in this table for each of the times given.

a)

Time (t)	10	20	30	40
Cost (c)				

b) This rule can be drawn as a graph. Plot the points from the table in a) on this graph.

Cost of Fixing a Mountain Bike per Minute Spent in Repair

c) If the repairs took 35 minutes, what was the cost? $_____

d) If the job cost $45, how long did the repairs take? _____ minutes