Mathematics	122	Quiz	#2
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Name:

1. Find the equation of the line through the points (1,3) and (4,2).

- 2. The initial cost of setting up a small factory to manufacture books is \$5,000. Once the factory has been set up it costs \$15 to make manufacture each book. The books are then sold at \$35 each.
 - (a) Give the equation of the total cost C to the manufacturer of producing a quality q books. (That is the cost of producing q books.)

 $C(q) = \underline{\hspace{1cm}}$

(b) Give the equation for the total revenue R if the manufacturer produces q books.

R(q) =

(c) Give a formula for the profit π made by the company if q books sold.

 $\pi(q) =$

(d) What number of books does the company need to sell to break even?

Break even point is _____