Taxi Fare Problems

Directions: Determine the linear equation that corresponds with the summary of taxi fares provided for the cities listed below. After determining the equation, determine how much it would cost to go 32 miles in each city.

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| **Fare Rates** |

**ATLANTA, GA**

**Metered Rates - Outside Business District**

* $2.50 for the first 1/8th mile or less
* $0.25 for each additional 1/8th of a mile
* $21.00 for each hour waiting time ($0.35/min)

**CHICAGO, IL**

**Metered Rates**

* $2.25 for the first 1/9th mile or less
* $0.20 for each additional 1/9th of a mile
* There is an extra $1.00 charge for for the first additional passenger over the age of 12 and under the age of 65, and $.50 for each additional passenger.
* There is no extra charge for baggage or credit card use, and tipping is optional
* Trips to or from suburbs may be charged additional [50% on metered rates.](http://www.taxifarefinder.com/info.php?city=Chicago#MeteredRates)

**DALLAS, TX**

**Metered Rates - Yellow Cab**

* $2.25 for the first 1/9th mile or less
* $0.20 for each additional 1/9th of a mile
* $0.45 for each 1.5 minute waiting time

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| **DENVER, CO**  **Metered Rates**   * $2.50 for the first 1/9 mile * $0.25 each additional 1/9 mile * $0.375 per minute of travel at less than 15 mph * $0.375 per minute of waiting time longer than 3 minutes * All toll charges shall be added to the normal fare |

SAN FRANCISCO, CA

**Metered Rates**

* $3.10 for the first 1/5 mile
* $0.45 each additional 1/5 mile
* $0.45 per minute of waiting time
* $2.00 for airport surcharge
* No Luggage Surcharge
* Passenger Pays Bridge Toll(s)

**LAS VEGAS, NV**

**Metered Rates**

* $3.30 for the first 1/11th mile or less
* $2.40 for each additional mile \*
* $0.25 fuel charge for each mile \*\*
* $30.00 for each hour waiting time ($0.50/min)

Based on your calculations, if you were to go on vacation and knew that you had to travel by cab in the city that you were visiting, which city would allow you to travel on a tight budget (most economically)? Justify your answer.