

Solution

1. $x = -44.6$
2. $y = 16.4$
3. $TC = \$10,822$

	dd	mm	ss	x (deg)	x (rad)	dd	mm	ss	y (deg)	y (rad)	d(rad)	d (mi)	q	r	w	TC
NF				-44.6018	-0.77845				16.38107	0.285904						10,822.04
Gainesville	82	20	11 W	-82.3364	-1.43704	29	40	27 N	29.67417	0.517912	0.645389	2554.525	1	1.00	1.00	2,554.53
Baghdad	44	22	E	44.36667	0.774344	33	14	N	33.23333	0.580031	1.400971	5544.677	1	1.00	1.00	5,544.68
Rio de Janeiro	43	12	W	-43.2	-0.75398	22	57	S	-22.95	-0.40055	0.686874	2722.84	1	1.00	1.00	2,722.84