

6-40  
2-11  
3-49

By Inspection  
Case 5

Distance and Departure given to find the Course and Difference Latitude

Admit to Ship sails 488 miles between the north and south west from the lat of 32-25 north until her Departure is 405 miles what Course has she steered and what latitude is she in

Lat	Departure	138-5	32-25
488	202-9		4-31
244	404-8	49 27170	36-56 Lat on
		631	

By Logarithms  
Thomas Delano

as Distance - 488	2-68542
is to radius	10-00000
So is Departure - 405	2-60746
to the sine Course 56-6	9-91384
as radius	10-00000
is to distance 488	2-68542
So is Co sine Course 56-6	9-74644
is to the Diff Lat 27-2	2-43456

Hence the Course is N 56-6 W or N 33-6 E nearly to the latitude Sailed from 32-25 add the difference of latitude 27-2 or 4-31 the sum 36-56 is the latitude the Ship is in

Thomas Delano  
New Bedford State of Massachusetts County of Bristol Clerk for further Information go to Danbury

August 1 1817

A Journal of the Voyage  
Kept by Thomas Delano  
on board Ship Herald John Burker  
Master  
From the Coast of Africa for  
the Coast of Brazil  
Lat 22-25 S Lon 14 E From  
which I take my Departure

August 2 1817	these 24 hours fresh gales from the S S W under Double reef topsails Lat 22-18 by obs Lon 14-9
Remarks on board Sunday August 3 1817	these 24 hours fresh gales fresh from the S S W under at 6 P M Close reef the fore and Main topsails at 8 P M let A reef out of the fore topsail to end this 24 hours Lat 22-5 Long 9-41
Remarks on board Monday August 4 1817	these 24 hours fresh gales from S S W at 10 P M Close reef the fore topsail at 12 parted the fore and Main topsails at 4 P M let the fore topsail at 6 set the Main topsail to end this 24 hours Lat 22-58 Long 8-30
Remarks on board Tuesday August 5 1817	these 24 hours fresh gales from the S E to let B reef out of the fore and Main topsail Lat 22-4 Long 3-58