

BETH S. | WTMA TRAVEL AGENCY TEAM

# TRIP CANADA VS. MEXICO PLANNING



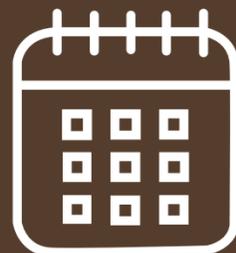
# TRIP REQUIREMENTS



**Fly out of Washington D.C. or Charlotte, NC**



**Budget: \$3791 AUD (or \$2500 USD )**



**Travel Date: 17th November →**



# CANADA - DESTINATION & ACTIVITIES

**Your destination in Canada is Banff.**

- Banff is a resort town in the province of Alberta, set right in the centre of the Canadian Rockies, in Banff National Park.
- It is accessible via an inexpensive shuttle bus from Calgary Airport, about an hour's drive away.
- It is a wonderful location to visit in winter

**What to do in Banff.**

Banff has a lively main street with lots of food options.

The Northern Lights are often seen in Banff - you might get lucky!



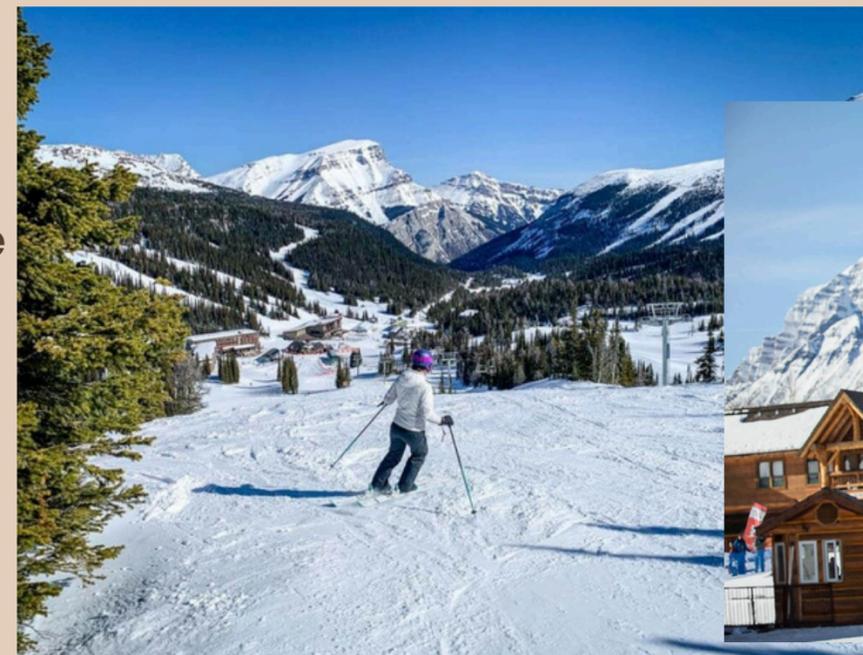
Banff is near popular ski-fields where you can Ski or Snowboard on runs from beginner to advanced.



Many tracks in the national park are still accessible in the snow, so you can see the mountains and lakes of the region. If you are feeling more adventurous, there are lots of snowshoeing tracks too.

You can ice-skate on Lake Louise.

There are also natural hot springs near Banff.



# CANADA - FLIGHT & HOTEL

## FLIGHT:

- Flight price is for 2 people
- Leaves & Returns to Dulles International Airport, Washington D.C.
- Return date TBC, based on how many nights stay is allowed by budget.

## HOTEL - HIDDEN RIDGE RESORT - APPROX \$195/NIGHT



A cozy resort with self-contained room suites with wood fires, and a hot spa area outside.

## Washington ↔ Calgary

Round trip · Economy (include Basic) · 2 passengers

**A\$1,474**

Lowest total price

### Selected flights

Track prices



Mon, Nov 17 · 9:00 AM – 2:24 PM  
Air Canada · United · Operated by Air Canada Expr... IAD-YYC

7 hr 24 min

1 stop  
1 hr 31 min YYZ

671 kg CO<sub>2</sub>e  
Avg emissions ⓘ



Sat, Nov 22 · 11:35 AM – 8:26 PM  
Air Canada · United · Operated by Air Canada Expr... YYC-IAD

6 hr 51 min

1 stop  
1 hr 22 min YYZ

580 kg CO<sub>2</sub>e  
-10% emissions ⓘ



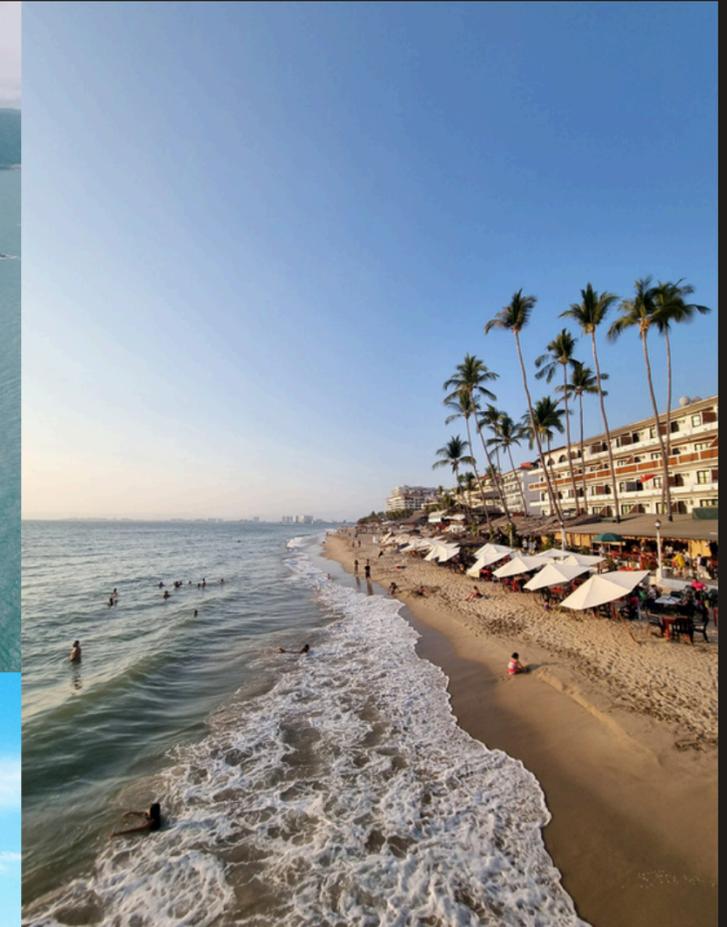
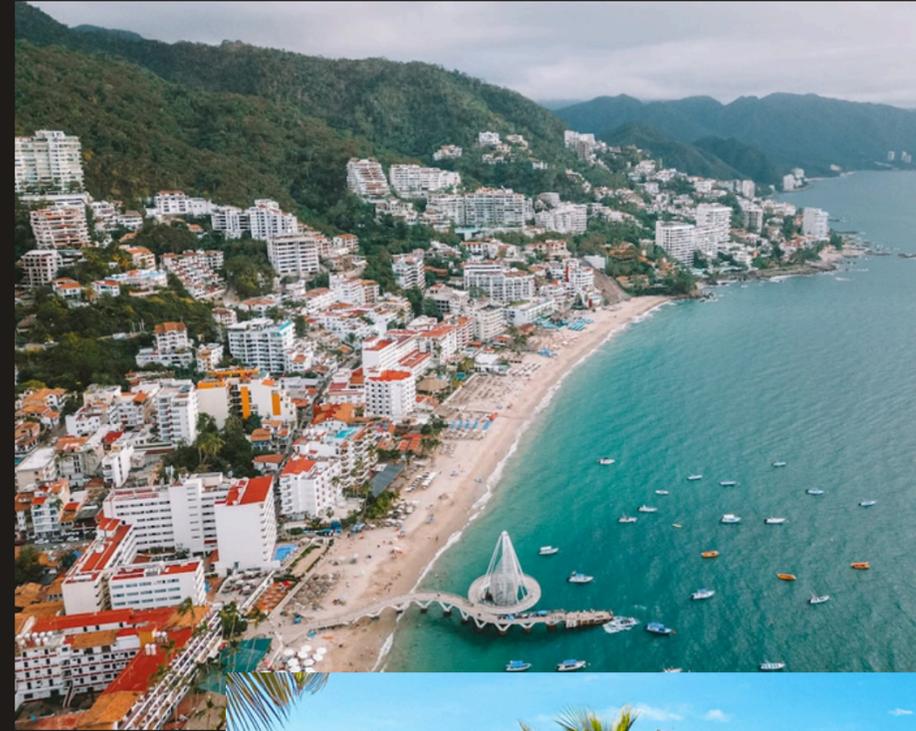
# MEXICO - DESTINATION & ACTIVITIES

Your destination in Mexico is Puerto Vallarta

- Puerto Vallarta is a resort town on Mexico's Pacific coast, known for its beaches, beautiful streets, and nightlife.
- While it is less well known than places like Cancun, it is a popular tourist destination and is quite safe. It is still quite warm in winter.

Things to do.

Puerto Vallarta has many beaches.



There is a botanical garden in the mountains nearby.



The streets in central Puerto Vallarta are beautiful, and street food is plentiful.

# MEXICO - FLIGHT & HOTEL

## FLIGHT:

- Flight price is for 2 people
- Leaves Charlotte Airport N.C.
- Return date TBC, based on how many nights stay is allowed by budget.

## HOTEL - PLAYA LOS ARCOS - APPROX \$190/NIGHT



A mid-range resort with a pool, beach access and beautiful furnishings

## Charlotte ↔ Puerto Vallarta

Round trip · Economy · 2 passengers

**A\$1,973**

Lowest total price

### Selected flights

[Track prices](#)



Mon, Nov 17 · 7:20 AM – 1:06 PM  
American

6 hr 46 min  
CLT-PVR

1 stop  
48 min DFW

594 kg CO<sub>2</sub>e  
-17% emissions



Sat, Nov 22 · 2:08 PM – 10:41 PM  
American

7 hr 33 min  
PVR-CLT

1 stop  
2 hr 23 min DFW

633 kg CO<sub>2</sub>e  
-12% emissions



# EQUATIONS

## EQUATIONS

total cost = hotel price(nights) + flight cost

Canada Equation:  $y = 195x + 1474$

Mexico Equation:  $y = 190x + 1973$

Where  $y \leq 3791$



### IMPORTANT NOTE:

Budget has been converted from USD \$2500 to AUD (\$3791). This is because everything on hotel and flight planner sites for me was in AUD, so it was easier to convert one number (the budget), than to convert everything else.

## EXTRA CREDIT EQUATION (done in USD here)

Let  $f$  = amount spent on food

$a$  = amount spent on activities

$s$  = amount spent on shopping

1.  $f + a + s = 1000$
2.  $a = 0.5f$
3.  $s = a - 50$

*Substitute equations 2 and 3 into equation 1:*

$$f + 0.5f + (0.5f - 50) = 1000$$

*Combine like terms and solve for  $f$ :*  $f = \$525$

*Use  $f$  to solve for  $a$ :*  $a = 0.5(525) = 262.50$

*Use  $a$  to solve for  $s$ :*  $s = 262.50 - 50 = 212.50$

You can spend \$525 on food,  
\$262.50 on activities  
and \$212.50 on shopping

# SOLVING ALGEBRAICALLY

Finding the point the two lines intersect.

Solve for  $x$

$$\begin{array}{r} 195x + 1474 = 190x + 1973 \\ -190x \quad -1474 \quad -190x \quad -1474 \end{array}$$

$$\frac{5x}{5} = \frac{499}{5}$$

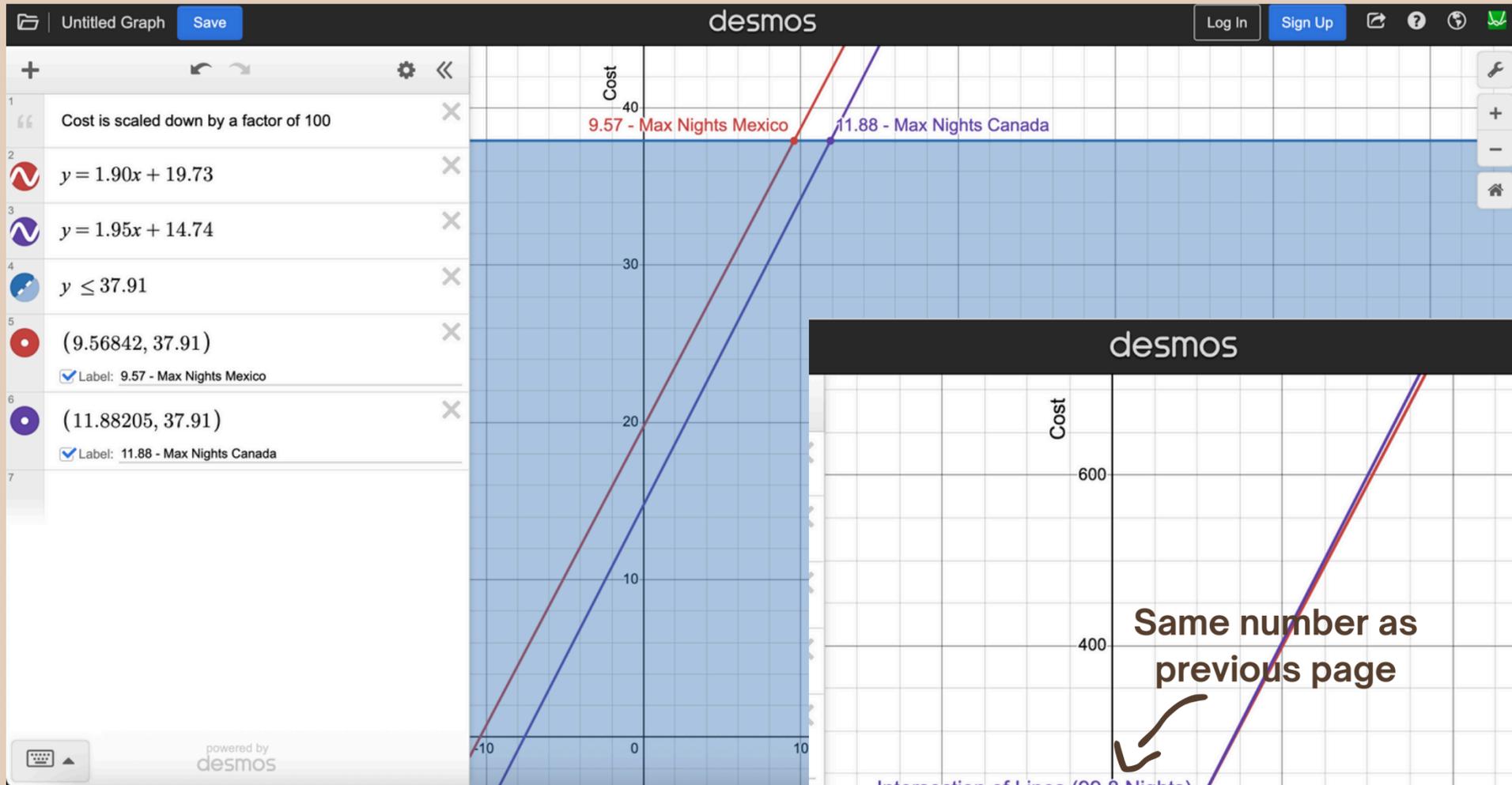
$$x = 99.8$$

Solve for  $y$

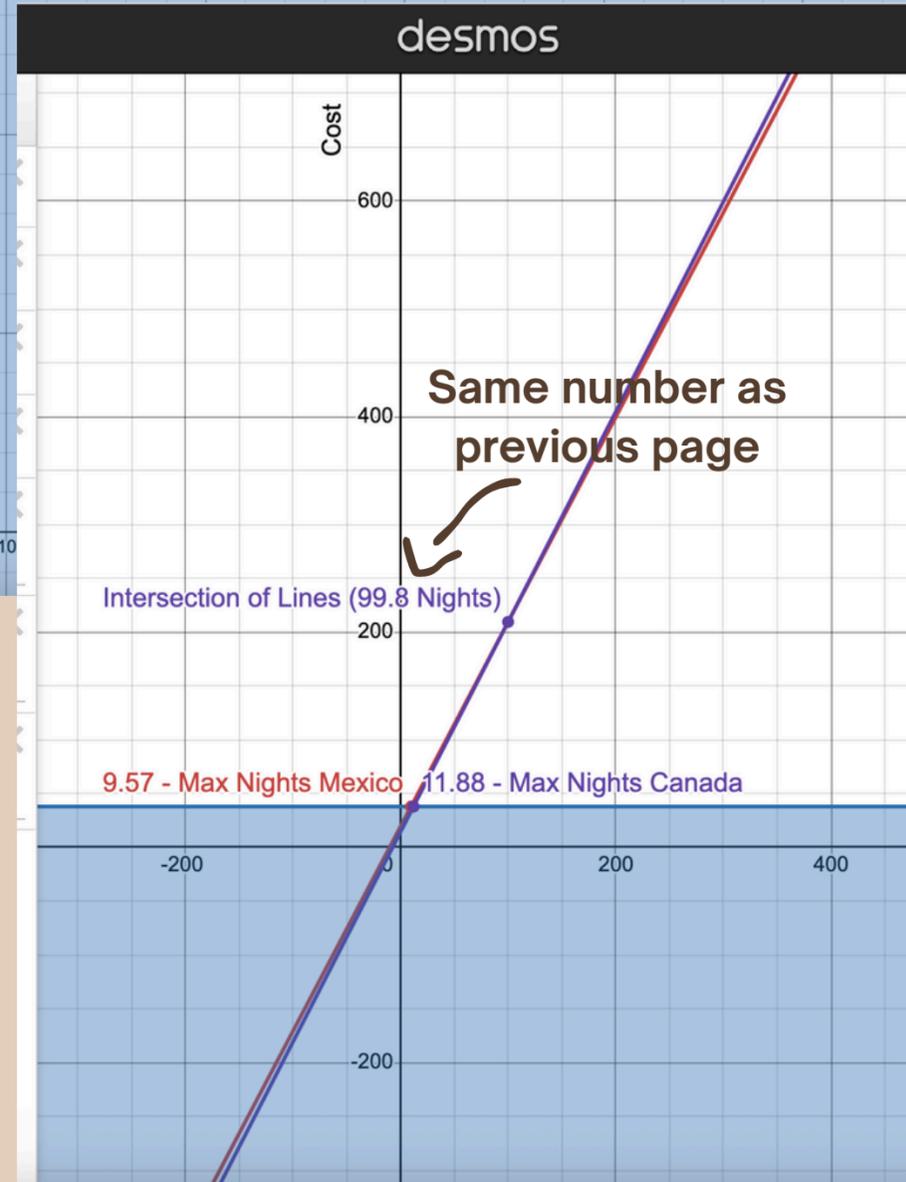
$$190(99.8) + 1973 = y$$

$$y = 20935$$

# GRAPHS & ANALYSIS



- The graph above shows that you can stay in Canada a maximum of 11 nights and Mexico a maximum of 9 nights.
- Note: Cost is scaled down by a factor of 100 (\$1973 becomes 19.73).



## RECCOMENDATION

I reccomend you go to Banff, Canada, as you will be able to get more out of your holiday - an extra two nights stay. It also looks incredible there, and there are so many wonderful things to see and do in the snow.

The graph to the left shows the intersection of lines is at 99 nights - far longer than any possible holiday. Canada is cheaper up until that point.