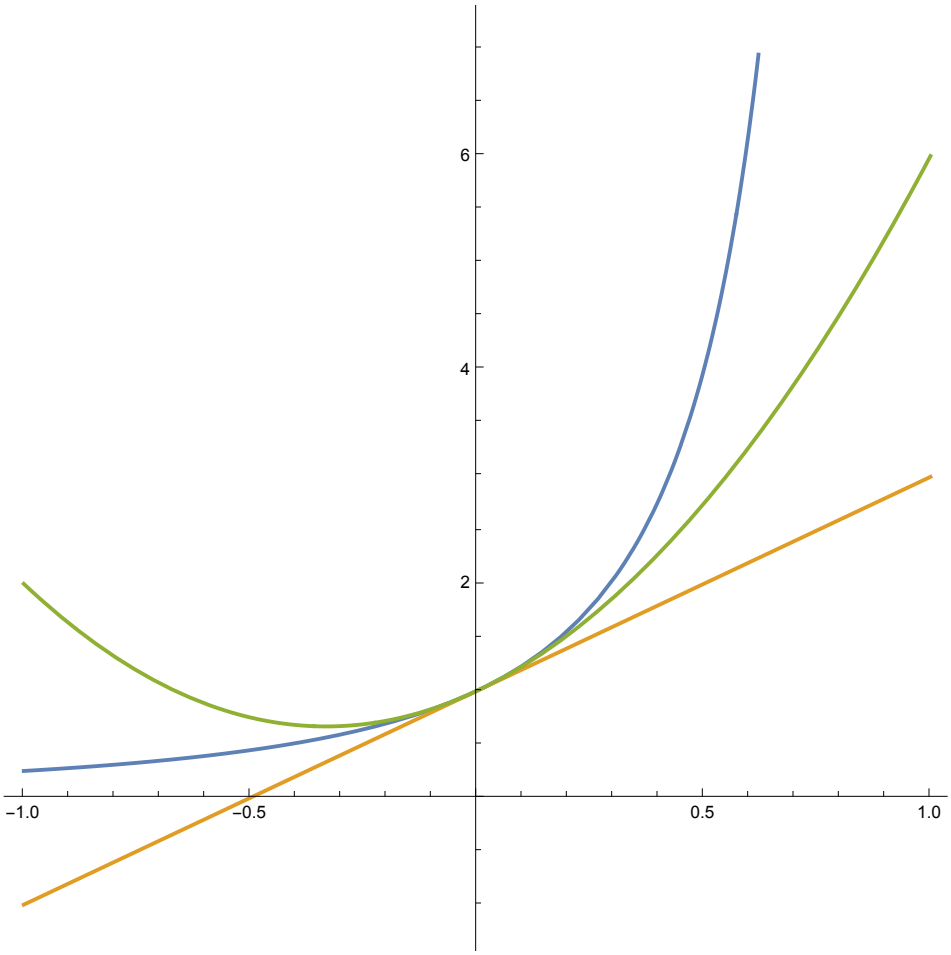
Maclaurin Series Expansion of $\frac{1}{(1-\Delta x)^2}$

In[8]:=
```
Plot[{1 / (1 - Δx)^2, 1 + 2 Δx, 1 + 2 Δx + 3 Δx^2}, {Δx, -1, 1}, AspectRatio → 1]
```

Out[8]=



Above, in blue is the original function, $\frac{1}{(1-\Delta x)^2}$. In orange is the linear approximation. In green is the quadratic approximation.