Ph3 Set 6

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In[69] := 1 = 2
Out[69]= 2
In[70]:= 1 == 2
Out[70]= False
In[71]:= 1 \neq 2
Out[71]= True
In[72]:= 1 < 2
Out[72]= True
In[73]:= 1 ≤ 2
Out[73]= True
In[74]:= 1 > 2
Out[74]= False
In[75]:= PrimeQ[9522013840]
Out[75]= False
In[76]:= PrimeQ[2013840]
Out[76]= False
In[78]:= FactorInteger [9 522 013 840]
Out[78]= \{\{2,4\},\{5,1\},\{41,1\},\{1063,1\},\{2731,1\}\}
In[79]:= isPrime[x_] := If[IntegerQ[x], If[PrimeQ[x],
          Print["Yeah this is a prime"], FactorInteger[x]], Print["Not an integer"]]
In[81]:= isPrime[Prime[4000]]
      Yeah this is a prime
In[82]:= isPrime[9522013840]
Out[82]= \{\{2,4\},\{5,1\},\{41,1\},\{1063,1\},\{2731,1\}\}
```