**Summary:**

100000+ variations. Index laws.

**Question:**

a) Evaluate the following.

(i) <EFOFEX>
id:fxe{4ac2a703-a724-4cb1-a6e6-fff123c6f597}
FXGP:DP-29GA3PS
FXData:

</EFOFEX> (ii) <EFOFEX>
id:fxe{818207f6-6467-46b2-ae57-dc06aa8baf29}
FXGP:DP-YWGTSD4
FXData:

</EFOFEX> (iii) <EFOFEX>
id:fxe{99c70c23-5beb-4e7d-aea6-11741a71d4b1}
FXGP:DP-AD9K7FM
FXData:

</EFOFEX>

b) Simplify the following.

<EFOFEX>
id:fxe{c3bfd0db-1c60-469b-8d5c-9201f5603b24}
FXGP:DP-72A3W6X
FXData:

</EFOFEX>

c) Simplify and express with positive indices.

1. <EFOFEX>
   id:fxe{464401f5-87a0-437c-927e-0077bcfee095}
   FXGP:DP-Z4DMFBU
   FXData:

   </EFOFEX> (ii) <EFOFEX>
   id:fxe{61db69c9-fe73-4bc0-b212-d2d182235b7b}
   FXGP:DP-WRE66Z6
   FXData:

   </EFOFEX>

(iii) <EFOFEX>
id:fxe{b257b1af-c353-42bc-9d0e-ea49c2f7ef25}
FXGP:DP-977WK4P
FXData:

</EFOFEX> (iv) <EFOFEX>
id:fxe{f791e380-b871-40ea-900e-6cd4b4409c89}
FXGP:DP-M9UM6PL
FXData:

</EFOFEX>

**Solution:**

1. i) <EFOFEX>
   id:fxe{d2b4f6b4-f81c-4cb7-b271-0354ec269661}
   FXGP:DP-29GA3PS
   FXData:

   </EFOFEX> ii) <EFOFEX>
   id:fxe{e4ca6590-e244-4e78-9536-3c3dfb854eef}
   FXGP:DP-YWGTSD4
   FXData:

   </EFOFEX> iii) <EFOFEX>
   id:fxe{6e834bb3-d0e0-483a-84d1-b9675a1fb372}
   FXGP:DP-AD9K7FM
   FXData:

   </EFOFEX>
2. <EFOFEX>
   id:fxe{50f75a63-2cd5-4f33-b86b-f0b164cbcd1a}
   FXGP:DP-72A3W6X
   FXData:

   </EFOFEX>
3. i) <EFOFEX>
   id:fxe{6db2e226-7911-4cc6-8d85-e8e6f13da6fb}
   FXGP:DP-Z4DMFBU
   FXData:

   </EFOFEX> ii) <EFOFEX>
   id:fxe{dd9cbcdb-38ef-4a0b-98ae-68fb97a42c96}
   FXGP:DP-WRE66Z6
   FXData:

   </EFOFEX>

iii) <EFOFEX>
id:fxe{e819ac7b-78cb-4ded-a1a5-c89d2c332779}
FXGP:DP-977WK4P
FXData:

</EFOFEX> iv) <EFOFEX>
id:fxe{f573a1ae-f750-49e7-924b-b4645d87e25a}
FXGP:DP-M9UM6PL
FXData:

</EFOFEX>