Name _____

[06-06-06-T7]

Tables

Sorry about the unusual format, but we needed a lot of tables in a hurry. And, though you have not seen it before in class, this would be a pretty common format for a table.

■ A. Each table is written x left, y right. Express y as a function of x.

[1]

Out[2]=
$$\begin{pmatrix} 0 & 0 \\ 4 & 12 \\ 8 & 24 \\ 12 & 36 \\ 16 & 48 \end{pmatrix}$$

The above means same as

x	0	4	8	12	16
y	0	12	24	36	48

[2]

Out[7]=
$$\begin{pmatrix} -5 & -\frac{2}{5} \\ -2 & -1 \\ 1 & 2 \\ 4 & \frac{1}{2} \end{pmatrix}$$

[3]

Out[8]=
$$\begin{pmatrix} -5 & 2 \\ -2 & \frac{4}{5} \\ 1 & -\frac{2}{5} \\ 4 & -\frac{8}{5} \end{pmatrix}$$

[4]

Out[10]=
$$\begin{pmatrix} -5 & -\frac{25}{2} \\ -2 & -5 \\ 1 & \frac{5}{2} \\ 4 & 10 \end{pmatrix}$$

[5]

Out[11]=
$$\begin{pmatrix} -5 & -1 \\ -2 & -\frac{5}{2} \\ 1 & 5 \\ 4 & \frac{5}{4} \end{pmatrix}$$

[6]

Out[12]=
$$\begin{pmatrix} -5 & \frac{1}{5} \\ -2 & \frac{1}{2} \\ 1 & -1 \\ 4 & -\frac{1}{4} \end{pmatrix}$$

[7]

Out[13]=
$$\begin{pmatrix} -4 & \frac{3}{4} \\ -1 & 3 \\ 2 & -\frac{3}{2} \\ 5 & -\frac{3}{5} \end{pmatrix}$$

■ A. Each table is written x left, y right

In[2]:= `Table[{x, 3 x}, {x, 0, 18, 4}]` `y = 3 x`

[1]

Out[2]=
$$\begin{pmatrix} 0 & 0 \\ 4 & 12 \\ 8 & 24 \\ 12 & 36 \\ 16 & 48 \end{pmatrix}$$

In[7]:= `Table[{x, 2/x}, {x, -5, 5, 3}]`

[2]

Out[7]=
$$\begin{pmatrix} -5 & -\frac{2}{5} \\ -2 & -1 \\ 1 & 2 \\ 4 & \frac{1}{2} \end{pmatrix}$$

[3]

In[8]:= `Table[{x, -2/5 x}, {x, -5, 5, 3}]`

Out[8]=
$$\begin{pmatrix} -5 & 2 \\ -2 & \frac{4}{5} \\ 1 & -\frac{2}{5} \\ 4 & -\frac{8}{5} \end{pmatrix}$$

[4]

In[10]:= `Table[{x, 5/2 x}, {x, -5, 5, 3}]`

Out[10]=
$$\begin{pmatrix} -5 & -\frac{25}{2} \\ -2 & -5 \\ 1 & \frac{5}{2} \\ 4 & 10 \end{pmatrix}$$

[5]

In[11]:= `Table[{x, 5/x}, {x, -5, 5, 3}]`

Out[11]=
$$\begin{pmatrix} -5 & -1 \\ -2 & -\frac{5}{2} \\ 1 & 5 \\ 4 & \frac{5}{4} \end{pmatrix}$$

[6]

In[12]:= `Table[{x, -1/x}, {x, -5, 5, 3}]`

Out[12]=
$$\begin{pmatrix} -5 & \frac{1}{5} \\ -2 & \frac{1}{2} \\ 1 & -1 \\ 4 & -\frac{1}{4} \end{pmatrix}$$

[7]

In[13]:= `Table[{x, -3/x}, {x, -4, 5, 3}]`

Out[13]=
$$\begin{pmatrix} -4 & \frac{3}{4} \\ -1 & 3 \\ 2 & -\frac{3}{2} \\ 5 & -\frac{3}{5} \end{pmatrix}$$