

1 Alphametics

1. [4 points]

$$\begin{array}{r} \text{DOG} \\ + \text{LOG} \\ \hline \text{GOOD} \end{array}$$

$$\begin{array}{r} \square\square\square \\ + \square\square\square \\ \hline \square\square\square\square \end{array}$$

2. [7 points]

$$\begin{array}{r} \text{UN} \\ \text{UN} \\ + \text{NEUF} \\ \hline \text{ONZE} \end{array}$$

$$\begin{array}{r} \square\square \\ \square\square \\ + \square\square\square\square \\ \hline \square\square\square\square \end{array}$$

3. [10 points]

$$\begin{array}{r} \text{STEVE} \\ + \text{STEVE} \\ \hline \text{APPLES} \end{array}$$

$$\begin{array}{r} \square\square\square\square\square \\ + \square\square\square\square\square \\ \hline \square\square\square\square\square\square \end{array}$$

4. [13 points]

$$\begin{array}{r}
 \text{COMPLEX} \\
 + \text{LAPLACE} \\
 \hline
 \text{CALCULUS}
 \end{array}$$

$$\begin{array}{r}
 \square \square \square \square \square \square \square \\
 + \square \square \square \square \square \square \square \\
 \hline
 \square \square \square \square \square \square \square
 \end{array}$$

5. [16 points]

$$\begin{array}{r}
 \text{BEARLIKE} \\
 \text{YELLOW} \\
 + \text{BEAR} \\
 \hline
 \text{BERKELEY}
 \end{array}$$

$$\begin{array}{r}
 \square \square \square \square \square \square \square \\
 \square \square \square \square \square \square \\
 + \square \square \square \square \\
 \hline
 \square \square \square \square \square \square \square
 \end{array}$$

2 ABC

1. [4 points]

C

B				
				A

C

use letters
A, B, C

2. [7 points]

		A	A	
A				B

C B

use letters
A, B, C

3. [10 points]

		A	A	A	
D					
					C
					C

A D D

use letters
A, B, C, D

4. [13 points]

		B	B		
C					
C					
A					
		B	A	A	

use letters
A, B, C

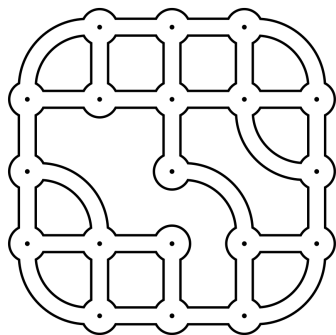
5. [16 points]

		B	E	A	D	E	D	
								F
D								A
A								D
B								E
								D
F								
E								A
D								
		A	C	E		B	E	

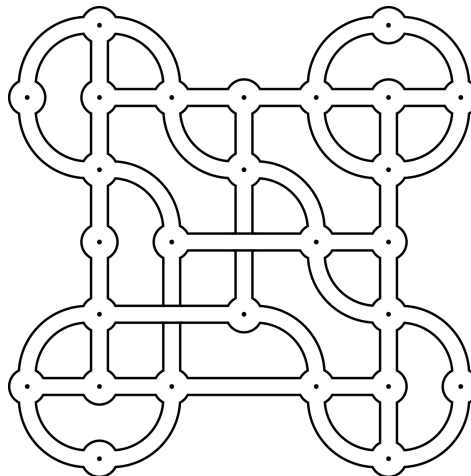
use letters
A, B, C, D, E, F

3 Hamilton Maze

1. [4 points]



2. [7 points]



3. [10 points]

