## **Problem Set:**

**Directions:** Record your final answers in the table below. Show your work in the space provided under the table for each problem.

Problem	Credit Card Number to Check	Passes First Check Number of Digits  OR X	Passes 2nd Check Starting Values Vor X	Passed 3rd Check Checksum ✓ OR ×	Type of Card or Invalid
1	342154612121212	V	V		bilav
2	4697938719461569	V	V		valid
3	5145645612345612	VM		X	invalid
4	5168574463118134	VM			invalid
5	376124367838558	/ A			valid
6	4126548789456	V V		X	invalid

valid

3) 5 1 4 5 6 4 5 6 1 2 3 4 5 6 1 2 
$$\frac{1}{2}$$
  $\frac{1}{1+0}$  + 8 + 1+2 + 1+0 + 2 + 6 + 1+0 + 2 = 24 .

24+30 = 54º/010 ≠0

invalid

4) 5 1 6 8 5 7 4 4 6 3 1 1 8 1 3 4

$$2\times 1$$
 $1+0+1+2+1+0+8+1+2+2+1+6+6=31$ 
 $1+0+1+2+1+0+8+1+2+2+1+6+6=31$ 

29 + 31 = 600/010 = 0

Invalid

5) 3 7 6 1 2 4 3 6 7 8 3 8 5 5 8  $2\times$  1 1 1 1 1 1 1 1 1+4+2+8+1+6+1+6+1+6=33 173+6+2+3+7+3+5+8=37

33 + 37 = 700/010 = 0

valid

28 + 37 = 65°/0 10 70

invalid