

8.1

a)

| | | | | | |
|-----|-----|----|---|---|---|
| S=1 | P=0 | | | | |
| 9 | 6 | -4 | 5 | 2 | 2 |

| | | | |
|-----|-----|---|---|
| S=2 | P=0 | | |
| 9 | -4 | 2 | 7 |

| | | |
|-----|-----|--|
| S=4 | P=0 | |
| 9 | 2 | |

| | | | | | |
|-----|-----|---|----|---|---|
| S=1 | P=1 | | | | |
| 0 | 9 | 6 | -4 | 5 | 2 |

| | | |
|-----|-----|---|
| S=4 | P=1 | |
| 0 | 5 | 6 |

With S=1 and P=1

b) two activation maps

3x3x2

2x2x2

S=1, P=1 and filter of 2x2x3

Activation 1

| | | |
|---|----|---|
| 0 | -2 | 0 |
| 2 | -1 | 0 |
| 5 | 2 | 0 |

Activation 2

| | | |
|---|---|---|
| 4 | 2 | 0 |
| 0 | 1 | 0 |
| 5 | 2 | 0 |

| |
|---|
| 7 |
|---|

| | | |
|---|---|---|
| 2 | 7 | 6 |
|---|---|---|