

28

JULY
FRIDAY

2017

Q2.) Find Hermitian transpose

$$a) A = \begin{pmatrix} 0 & -i & 0 \\ i & 0 & -i \\ 0 & i & 0 \end{pmatrix}$$

the Hermitian conjugate is the transpose of its complex conjugate

$$H = \begin{pmatrix} 0 & -i & 0 \\ i & 0 & -i \\ 0 & i & 0 \end{pmatrix}$$

$$b) B = \begin{pmatrix} 3 & 7 & 9 & 7 & 0 & 8 \\ 1 & 4 & 5 & 5 & 9 & 5 \\ 9 & 4 & 7 & 8 & 8 & 8 \\ 6 & 3 & 3 & 1 & 9 & 1 \\ 2 & 1 & 5 & 6 & 4 & 4 \\ 8 & 2 & 5 & 5 & 0 & 5 \end{pmatrix}$$

Just the
transpose.

$$H = \begin{pmatrix} 3 & 1 & 9 & 6 & 2 & 8 \\ 7 & 4 & 4 & 3 & 1 & 2 \\ 9 & 5 & 7 & 3 & 5 & 5 \\ 7 & 5 & 8 & 1 & 6 & 5 \\ 0 & 9 & 8 & 9 & 4 & 0 \\ 8 & 5 & 8 & 1 & 4 & 5 \end{pmatrix}$$

2017 JULY

| | | | | | |
|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | |

17

JULY
SATURDAY

29

$$c = (i \ 0 \ 3+2i \ 5i)$$

$$H = \begin{bmatrix} -i \\ 0 \\ 3-2i \\ -5i \end{bmatrix}$$

SUNDAY 30

2017 AUGUST

| | | | | |
|-----|---|----|----|----|
| Mon | 7 | 14 | 21 | 28 |
| Tue | 1 | 8 | 15 | 22 |
| Wed | 2 | 9 | 16 | 23 |
| Thu | 3 | 10 | 17 | 24 |
| Fri | 4 | 11 | 18 | 25 |
| Sat | 5 | 12 | 19 | 26 |
| Sun | 6 | 13 | 20 | 27 |