```
Question 1:
```

(a.i)

Ry =

P' = (RT)P =

ans =

0

0

0

1

```
(a.ii)
```

T =

Rx =

Ry =

R =

 $Q = (T^{-1} R^{-1}) Q' =$

$$>> T^-1 * R^-1 * QPrime$$

ans =

11.0000

-4.0000

8.0000

1.0000