

## 22 NSI 36

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In [ ]: from math import sqrt  # import de la fonction racine carree
```

```
In [ ]: def distance(point1, point2):
        """ Calcule et renvoie la distance entre deux points. """
        return sqrt((...)**2 + (...)**2)
```

```
In [ ]: assert distance((1, 0), (5, 3)) == 5.0, "erreur de calcul"
```

```
In [ ]: def plus_courte_distance(tab, depart):
        """ Renvoie le point du tableau tab se trouvant a la plus
        courte distance du point depart."""
        point = tab[0]
        min_dist = ...
        for i in range (1, ...):
            if distance(tab[i], depart)...:
                point = ...
                min_dist = ...
        return point
```

```
In [ ]: assert plus_courte_distance([(7, 9), (2, 5), (5, 2)], (0, 0)) == (2, 5),
        "erreur"
```

