21 NSI 01

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

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 à 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"
```