Lab 2 – Exercise 5
The Distance between 2 Points

GIVENS : *(none)*
RESULT : *(none)*
INTERMEDIATES : paX, paY *(Coordinates of point A)*
pbX, pbY *(Coordinates of point B)*
theDistance *(The distance between the 2 points)*
HEADER : : main()
BODY :

```
printLine(“Enter the coordinates of 2 points.”)
print("Point A, coord x = ")
paX ← peadReal()
Affiche ("Point A, coord y = ")
paY ← peadReal ()
Affiche ("Point B, coord x = ")
pBX ← peadReal ()
Affiche ("Point B, coord y = ")
pbY ← peadReal ()
theDistance ← calculateDistance(paX, paY, pbX, pbY)
printLine(“The distance between the two points is “, theDistance)
```

GIVENS : xA, yA *(Coordinates of point A)*
xB, yB *(Coordinates of point B)*
INTERMEDIATES : distance *(the distance between the 2 points)*
HEADER : distance ← calculateDistance(xA, yA, xB, yB)
BODY :

distance ← $\sqrt{(xA - xB)^2 + (yA - yB)^2}$