

1. Find the distance  $d(L, H)$  between the points  $L=(5,-1)$  and  $H=(-3,-2)$

$$\sqrt{66}$$

$$\sqrt{67}$$

$$\sqrt{65}$$

$$2\sqrt{17}$$

**Solution**

$$\text{The distance} = \sqrt{(-2 - (-1))^2 + (-3 - 5)^2}$$

$$\text{The distance} = \sqrt{(-1)^2 + (-8)^2}$$

$$= \sqrt{1+64}$$

$$= \sqrt{65}$$