8. Find the distance d(S, G) between the points
$$S=(1,4)$$
 and $G=(5,-3)$

$$\sqrt{66}$$

8.

The distance =
$$\sqrt{(-3-4)^2 + (5-1)^2}$$

The distance = $\sqrt{(-7)^2 + (4)^2}$

 $= \sqrt{49+16}$

 $= \sqrt{65}$