1. Find the distance $d(D, X)$ between the points $D = (2,6)$ and $X = (-3,3)$

$\sqrt{35}$

6

$\sqrt{34}$

$\sqrt{37}$

Solution

The distance $= \sqrt{(3-6)^2 + (-3-2)^2}$

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

$= \sqrt{9+25}$

$= \sqrt{34}$