6. Find the distance $d(P2, P1)$ between the points $P2 = (-3, 2)$ and $P1 = (3, 4)$

$\sqrt{41}$

$\sqrt{42}$

$2\sqrt{10}$

$\sqrt{43}$

Solution

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

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

$= \sqrt{4+36}$

$= 2\sqrt{10}$