Calculate the lengths of sides and diagonals of given quadrilateral.

A $(-3, 1)$
$(0, 0)$ D
B $(-3, 2)$
C $(1, -2)$
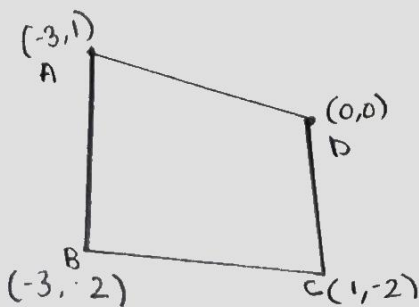
$BC = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$

$= \sqrt{(-3-1)^2 + (-2 - 2)^2}$

$= \sqrt{(-4)^2 + 0}$

$= \sqrt{16}$

$= \underline{4}$

$CD = \sqrt{(0-1)^2 + (0-2)^2}$

$= \sqrt{(-1)^2 + (2)^2}$

$= \sqrt{1 + 4}$

$= \underline{\sqrt{5}}$

$AD = \sqrt{(-3 - 0)^2 + (1 - 0)^2}$

$= \sqrt{(-3)^2 + (1)^2}$

$= \sqrt{9 + 1}$

$= \underline{\sqrt{10}}$

$AB = \sqrt{(-3 - -3)^2 + (1 - -2)^2}$

$= \sqrt{(0)^2 + (3)^2}$

$= \sqrt{9}$

$= \underline{3}$

$BD = \sqrt{(-3 - 0)^2 + (-2 - 0)^2}$

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

$= \sqrt{9 + 4}$

$= \underline{\sqrt{13}}$

$AC = \sqrt{(-3 - 1)^2 + (1 - -2)^2}$

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

$= \sqrt{16 + 9}$

$= \sqrt{25}$

$= \underline{5}$