

Find the distance between each pair of points. ROUND TO THE NEAREST HUNDREDTH.

21. $N(3, -5)$, $C(3, 0)$

$$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$$
$$= \sqrt{(3 - 3)^2 + (-5 - 0)^2}$$
$$= \sqrt{(0)^2 + (-5)^2}$$
$$= \sqrt{0 + 25}$$
$$= \sqrt{25}$$

$NC = 5$

22. $A(-2, 2)$, $B(-6, -3)$

$$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$$
$$= \sqrt{(-2 - (-6))^2 + (2 - (-3))^2}$$
$$= \sqrt{(4)^2 + (5)^2}$$
$$= \sqrt{16 + 25}$$

$AB = \sqrt{41}$