1)
$$d(x,y) = \sum_{i=1}^{n} (1x_i - y_i)^3$$

$$for x_i y \in \mathbb{R}^n ; d(x,y) \text{ is a ways}$$

$$positive dive to the fact that the absolute value is always taken of the distance.$$

$$d(x,y) = 0$$
; f.f. $(E(x,-y,1)) = 0$; f.f. $E(x,-y,1) = 0$
iff $|x_1-y_1|^3 = 0$ for $i=1,2,3,-,n$
iff $|x_1-y_1| = 0$ iff $|x_1-y_1| = 0$
iff $|x_1-y_1| = 0$ iff $|x_1-y_1| = 0$
iff $|x_1-y_1| = 0$ iff $|x_1-y_1| = 0$

Since all 3 Londrions are met jo- a proper distance formula, the equation 15 a Correct distance formula.

$$d(a_1b) = \sqrt{(0-0)^2 + (1-0)^2 + (0-0)^2} = 1$$

$$d(a_1c) = \sqrt{(0-0)^2 + (1-0)^2 + (1-0)^2} = \sqrt{2}$$

$$d(a_1c) = \sqrt{(1-0)^2 + (1-0)^2 + (1-0)^2} = \sqrt{3}$$

$$d(b_1c) = \sqrt{(1-0)^2 + (1-1)^2 + (1-0)^2} = 1$$

$$d(b_1d) = \sqrt{(1-0)^2 + (1-1)^2 + (1-0)^2} = \sqrt{2}$$

V(x2-x1)2+(42-41)2+(22-21)2

d (c,d)= (1-0) >+ (1-1) =