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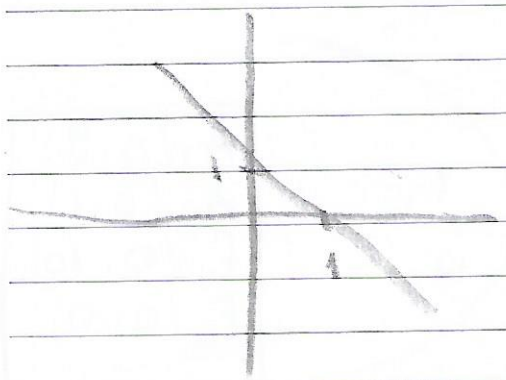
S T Q Q S S D



$y = -x + 1$

$d((x,y),(0,1)) + d((x,y),(1,0)) = 2a$

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

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

$x^2 + y^2 - 2y + 1 = 9 - 6\sqrt{(x-1)^2 + y^2} + x^2 - 2x + 1 + y^2$

$2(x - y) - 9 = -6\sqrt{x^2 - 2x + 1 + y^2}$

$4(x-y)^2 - 36(x-y) + 81 = 36(x^2 - 2x + 1 + y^2)$

$4x^2 - 8xy + 4y^2 - 36x + 36y - 36x^2 + 72x - 36y^2 - 36 + 81 = 0$

$\boxed{-32x^2 - 32y^2 - 8xy + 36x + 36y + 45 = 0}$

$y = \frac{3}{3} + 1 \iff y = 2$

B: $d((0,1),(x,3x+1)) = \sqrt{10}$

$x^2 + (1 - 3x - 1)^2 = 10$

$10x^2 = 10$

$x = 1$

$y = 3 \cdot 1 + 1$

$y = 4$