4) Longitud de los lados dul triángulo P(3,-2,-3), Q(7,0,1), R(1,2,1). ¿ Isóceles, triángulo rectángulo?

$$|P_{A} & P_{B}| = \sqrt{(X_{2} - X_{1})^{2} + (y_{1} - y_{1})^{2} + (z_{1} - z_{1})^{2}}$$

$$|P_{p}|_{Q} = \sqrt{|S|^{2} + (-2 - 0)^{2} + (-3 - 1)^{2}}$$

$$= \sqrt{3 - 4} + (-2)^{2} + (-4)^{2} = \sqrt{16 + 4 + 16}$$

$$= \sqrt{36} = 6$$

$$|P_{Q}P_{R}| = \sqrt{(7-1)^{2} + (0-2)^{2} + (1-1)^{2}}$$

$$= \sqrt{(6)^{2} + (-2)^{2} + (0)^{2}} = \sqrt{36 + 4} = \sqrt{40^{2}}$$

$$|P_{R}P_{P}| = \sqrt{(1-3)^{2} + (2+2)^{2} + (1+3)^{2}}$$

$$= \sqrt{(2)^{2} + (4)^{2} + (4)^{2}} = \sqrt{4 + 16 + 16} = \sqrt{36} = 6$$