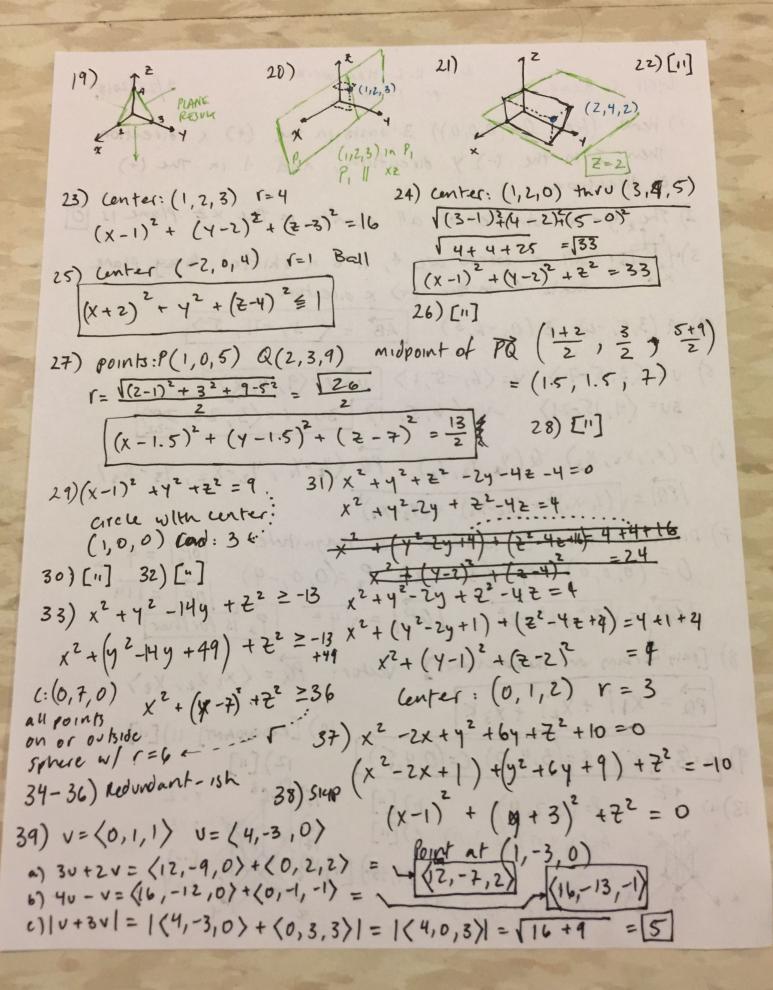
Lyell C Read CH 11.2 Homework
pr. 1-50 1) Head (from 0 (0,0,0)) 3 units in the (+) x direction then 2 in the (-) y direction, and I in the (+) & direction. 2) The y-coordinate of all points in the xz plane is 0 3) of the all x-words are 4, It's a shifted \$24 plane that's 4 in the (+) x director 4) A (3,5,-2) B (0,-6,3) [AB = (-3,-11,57] 5) $V = \langle 3, 5, 7 \rangle$ $V = \langle 6, -5, 1 \rangle$ $V + V = \langle 9, 0, 1 \rangle$ $V = \langle 9, 15, 21 \rangle$ $V = \langle -6, 5, -1 \rangle$ 6) P(x,,x2,X3) Q(Y2,Y2,Y3) PQ(Y2-X,,Y2-X2,Y3-X3) |PQ| = \ (Y,-X,)2 + (Y2-X2)2 + (Y3-X2)2 7) Distance from 0 is same as magnitude. $|\vec{oP_2}| = 4 = 0 = (0,0,0) P_1 = (3,-1,2) P_2 = (0,0,-4) |\vec{oP_1}| = \sqrt{14}$ 10P1= \32+12+22 10P2 = \42 P2 Is Further 8) [only working out the novel part] vector: PQ = (x, X2, X3) PQ = X11 + X2) + X3K 10) [REDUNDANT] 11)[1] 9) A=(3,0,5) B=(3,4,0) C=(0,4,5) 13) a) $1^{\frac{1}{2}}$ P=(2,2,4) b) ["] |5) $1^{\frac{3}{2}}$ x=2 A=(x,y,0)=(2,2,0) c) ["] |5) $1^{\frac{3}{2}}$ x=2 B=(x,0,2)=(2,2,0) ["] |8] $1^{\frac{3}{2}}$ $1^{\frac{3}{2$

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40-44) SIUPPED 45) P=(1,5,0) Q=(3,11,22)

A) PQ: (2,6,2) = 2i + 6j + 2K NEG.U.V: (-==,-==)

b) |PQ|: \(\frac{4}{4} + 3G + 4 \) = \(\frac{44}{44} \) PQ = \(\frac{2}{44} + \frac{2}{44} + \frac{2}{44} \)

c) 2 UV IIRQ Unit vector formed by: \(\frac{1}{1PQ} + \frac{2}{1PQ} + \frac{2}{1