$$\begin{array}{l}
\stackrel{?}{=} = 55 \cos 60 i + 55 \cos 30 j - 55 \cos 60 k \\
= 27.5 i + 47.63 j - 27.5 k \\
\stackrel{?}{=} = 0 \times i - \frac{75}{25} \times 24 \times j + \frac{75}{25} \times 7 \times k \\
= -72 j + 21 k \\
\stackrel{?}{=} = (27.5 + 0) i + (47.63 - 72) j + (-27.5 + 21) k
\end{array}$$

$$\vec{F} = \frac{27.5 i}{(27.5)^{2}} - \frac{24.37 \hat{j}}{(-24.37)^{2}} + \frac{6.5 \hat{k}}{(-6.5)^{2}}$$

$$= \frac{37.31}{27.5} + \frac{24.37}{(-6.5)^{2}} = \frac{37.31}{(-6.5)^{2}}$$

$$F = \frac{37.31}{27.51} = \frac{24.37}{37.31} = \frac{6.5}{37.31} = \frac{6.$$

$$= \frac{27.5}{37.51} = 79 = 42.85$$

$$= -\frac{24.37}{37.31} \Rightarrow (3 = 130.78)$$

= - 6.5

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