Brall Cally dg bb/

a) 
$$\overrightarrow{AB} = \begin{pmatrix} 3 \\ 0 \\ -4 \end{pmatrix}$$

$$BZ = \begin{pmatrix} 0 \\ -4 \\ 0 \end{pmatrix}$$

$$N = \begin{pmatrix} 3 \\ 0 \\ -9 \end{pmatrix} \Lambda \begin{pmatrix} 0 \\ -4 \\ 0 \end{pmatrix} = \begin{vmatrix} i & j & k \\ 30 - 4 \\ 0 - 90 \end{vmatrix} = \begin{pmatrix} -16 \\ 0 \\ -12 \end{pmatrix}$$

$$|n| = 70 \Rightarrow \hat{n} = \begin{vmatrix} -45 \\ 0 \\ -35 \end{vmatrix}$$

$$-75 = 20x \begin{pmatrix} -\frac{4}{50} \\ -\frac{2}{50} \end{pmatrix} = \begin{pmatrix} 16 \\ 0 \\ 12 \end{pmatrix}$$

$$\begin{array}{c} (2) & 5 \cdot \hat{i} \\ = \begin{pmatrix} 16 \\ 0 \\ 17 \end{pmatrix} \cdot \begin{pmatrix} 0 \\ 0 \end{pmatrix} = \frac{16}{12} \quad \begin{array}{c} 0.7 \\$$

$$\frac{2}{000} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$$

$$000 = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$$

$$7 \left( \frac{2}{4} \right) + \hat{n} \cdot \frac{1}{57} \left( \frac{0}{1} \right) = \left( \frac{0}{4} \right) \cdot \left( \frac{0}{57} \right)$$

Area of Battom = 
$$675$$
  $\begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 265 \end{bmatrix}$