## Special Problem 4-6.1

An electric dipole with dipole moment :

$$
\mathrm{p}=9 \pi \varepsilon_{0}\left(3 \hat{a}_{x}+2 \hat{a}_{z}\right)
$$

is located at point $P(x=0, y=3, z=1)$ in free space.
Determine the potential difference (in volts) between point $P_{a}(x=0, y=$ $4, z=1)$ and point $P_{b}(x=0, y=3, z=4)$.

