

## University Physics II

### Answer Sheet – Homework Set 3

Questions beginning with \*\* do not have answers on this sheet.

$$8.1 \times 10^6 \text{ N/C } (-\hat{y})$$

$$-4.0 \times 10^{-9} \text{ C}$$

$$8.64 \times 10^{-7} \text{ C/m}^2$$

$$-1.124 \times 10^{-8} \text{ C}$$

$$3.55 \times 10^5 \text{ Nm}^2/\text{C}$$

$$-2340 \text{ Nm}^2/\text{C}$$

$$10.2^\circ$$

$$0$$

$$-0.977 \text{ Nm}^2/\text{C}$$

$$7.2 \times 10^6 \text{ N/C}$$

$$2.0 \text{ N}$$

$$-6.89 \times 10^6 \text{ Nm}^2/\text{C}$$

$$-Q/\epsilon_0$$

$$0$$

$$2340 \text{ Nm}^2/\text{C}$$

$$0$$

$$-2Q/\epsilon_0$$

$$1.62 \times 10^7 \text{ N/C } (-\hat{y})$$

$$1.62 \times 10^6 \text{ N/C } (-\hat{y})$$

$$0$$

$$9.12 \times 10^{-7} \text{ C}$$

$$6.5 \times 10^5 \text{ N/C}$$

$$0$$

$$5.56 \times 10^{-9} \text{ C}$$

$$0$$

$$9.56 \times 10^{-9} \text{ C}$$

$$3.66 \times 10^5 \text{ N/C}$$

$$1.46 \times 10^6 \text{ N/C}$$

$$779.7 \text{ N/C}$$

$$3.099 \times 10^{10}$$

$$4.0 \times 10^{-9} \text{ C}$$