

## University Physics II

### Answer Sheet – Homework Set 4

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

|                                         |                                   |
|-----------------------------------------|-----------------------------------|
| $1.52 \times 10^5 \text{ m/s}$          | 659 V                             |
| $3.84 \times 10^{-7} \text{ V}$         | $7 \text{ V/m } \hat{x}$          |
| $5.85 \times 10^6 \text{ V/m } \hat{r}$ | -11 V                             |
| $1.21 \times 10^6 \text{ V}$            | $2.12 \times 10^6 \text{ V}$      |
| $1.19 \times 10^7 \text{ V/m } \hat{r}$ | 6091 V                            |
| 0                                       | 2.06 cm                           |
| $7 \text{ V/m } \hat{x}$                | $1.17 \times 10^6 \text{ V}$      |
| $1.67 \times 10^6 \text{ V}$            | $-5.76 \times 10^{-7} \text{ V}$  |
| 260 V                                   | $1.5 \times 10^6 \text{ m}$       |
| $-1.5 \times 10^6 \text{ V}$            | 0                                 |
| $-1.11 \times 10^7 \text{ V}$           | $3.456 \times 10^{-13} \text{ J}$ |
| $6.49 \times 10^6 \text{ m/s}$          | -32 V                             |
| 5432 V                                  | 7.07 N/C                          |
| $4.5 \times 10^4 \text{ V}$             | $1.67 \times 10^6 \text{ V}$      |
| 10 V                                    | 0.0394 m                          |
| $7 \text{ V/m } \hat{x}$                | 20 m/s                            |
| 0                                       | $7 \times 10^{-6} \text{ C}$      |
| 2.94 cm                                 |                                   |