University Physics II

Answer Sheet – Homework Set 2

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

3.84×10^{8} N/C

6.65×10^{5} N/C

1.96×10^{-5} *s*

6.69×10^{6} N/C

1.6×10^{6} *m/s* $\hat{\boldsymbol{x}}$ – 435.7 *m/s* $\hat{\boldsymbol{y}}$

-5.74×10^{13} *m/s*^{2}

2388.5 *m/s*

4.94×10^{-8} *s*

3.24×10^{8} N/C

$k_e\lambda_o/x_o$ ($-\hat{\boldsymbol{x}}$)

3.92 C

2.84×10^{6} *m/s*

36.8°

1.66×10^{-7} *s*

2.22×10^{-7} s

3195 N/C

4.38×10^{6} *m/s*

6.12×10^{10} *m/s*^{2}

6.4×10^{6} N/C

1.2×10^{-15} J

-1/3

6.65×10^{6} N/C

8.08×10^{7} N/C

2.42×10^{7} N/C

53.2°

$k_e\lambda_o/2x_o$ ($-\hat{\boldsymbol{x}}$)

2177.4 C/*kg*

$-3.43° < \theta < 3.43°$

364.5 N/C

34 N/C

11.76 *m*