

University Physics I

Answer Sheet – Homework Set 2

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

$$2.17\text{ m } \hat{x} + 1.25\text{ m } \hat{y}$$

$$2.6\text{ m } \hat{x} + 4.5\text{ m } \hat{y}$$

$$-56.73\text{ } \hat{x} + 19.53\text{ } \hat{y}$$

$$-129.9\text{ m } \hat{x} - 201.8\text{ m } \hat{y}$$

$$-43\text{ } \hat{y}$$

$$-15.39\text{ } \hat{x} - 19.7\text{ } \hat{y}$$

$$-2.6\text{ m } \hat{x} + 1.5\text{ m } \hat{y}$$

$$0.45\text{ } \hat{x} + 4.07\text{ } \hat{y}\text{ (cm)}$$

$$7.3\text{ cm } \hat{x} - 7.2\text{ cm } \hat{y}$$

$$64.95\text{ } \hat{x} + 37.5\text{ } \hat{y}$$

$$5.66$$

$$3.61\text{ m}$$

$$8.6\text{ m}$$

$$73.11$$

$$45^\circ$$

$$135^\circ$$

$$90^\circ$$

$$112.6^\circ$$

$$80.19\text{ } \hat{x} - 40.86\text{ } \hat{y}$$

$$2.6\text{ m } \hat{x} - 1.5\text{ m } \hat{y}$$

$$73.02\text{ } \hat{x} - 3.53\text{ } \hat{y}$$

$$240\text{ m @ } 237.2^\circ$$

$$2.81\text{ km E} + 1.31\text{ km N}$$

$$2.35\text{ } \hat{x} + 0.77\text{ } \hat{y}\text{ (cm)}$$

$$2.6\text{ m } \hat{x} - 4.5\text{ m } \hat{y}$$

$$-0.45\text{ } \hat{x} - 4.07\text{ } \hat{y}\text{ (cm)}$$

$$-1.9\text{ m } \hat{x} + 3.29\text{ m } \hat{y}$$

$$-2\text{ } \hat{z}\text{ (m/s)}$$

$$4.24\text{ m}$$

$$8$$

$$13\text{ m}$$

$$4.47\text{ m}$$

$$-33.7^\circ\text{ (or } 326.3^\circ)$$

$$4.55\text{ m}$$

$$-63.4^\circ\text{ (or } 296.6^\circ)$$

$$-2.77^\circ\text{ (or } 357.23^\circ)$$