

## University Physics I

### Answer Sheet – Homework Set 5

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

$$9.66 \hat{x} - 25.54 \hat{y} \text{ (m/s)}$$

$$(18t) \hat{x} + (4t - 4.9t^2) \hat{y} \text{ (m)}$$

$$-15.5 \hat{x} + 15.3 \hat{y} \text{ (m/s)}$$

$$1 \hat{x} + 0.5 \hat{y} \text{ (m/s)}$$

$$-0.9 \hat{x} + 0.7 \hat{y} \text{ (m/s}^2\text{)}$$

$$-85 \hat{x} + 152 \hat{y} \text{ (m)}$$

$$18 \hat{x} - 25.4 \hat{y} \text{ (m/s)}$$

$$4.69 \text{ s}$$

$$1.47 \text{ m}$$

$$1.13 \text{ m}$$

$$62.2 \text{ m/s}$$

$$1.1 \text{ m/s}$$

$$0.528 \text{ m}$$

$$35.8 \text{ m/s}$$

$$12.9 \text{ m/s}$$

$$43.17 \text{ m}$$

$$1.25 \text{ m/s}$$

$$4.0 \text{ m/s}$$

$$1.12 \text{ m/s}$$

$$1.22 \text{ s}$$

$$49.5 \text{ m/s}$$

$$18 \hat{x} + (4 - 9.8t) \hat{y} \text{ (m/s)}$$

$$54 \hat{x} - 32.1 \hat{y} \text{ (m)}$$

$$-9.8 \text{ m/s}^2 \hat{y}$$

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$$-9.8 \text{ m/s}^2 \hat{y}$$

$$15 \text{ m/s } \hat{x}$$

$$2.98 \text{ s}$$

$$-4.7 \text{ m/s}$$

$$10.7 \text{ m/s}$$

$$83.6 \text{ m/s}$$

$$45^\circ$$

$$81 \text{ m/s}$$

$$36.7 \text{ m}$$

$$50 \text{ m}$$

$$9.18 \text{ m}$$

$$216.6 \text{ m}$$

$$15.9 \text{ m}$$

$$77.2 \text{ yds}$$

$$62 \text{ m/s}$$

$$53.1^\circ$$