Lesson 6 Worksheet

- 1. A base ball is thrown with an initial speed of 20 m/s at an angle of 10° above the horizontal. Determine:
- a. How long it is in the air for.
- b. What its maximum height will be.
- c. How long the range (horizontal displacement) is.
- 2. An artillery shell is launched at an unknown angle. It strikes the ground (at the height that it was fired) 250 m away and has a maximum height of 100 m. Determine:
- a. The time the shell is in the air.
- b. The horizontal velocity.
- c. The initial vertical velocity.
- d. The initial speed.
- e. The angle the projectile was launched at.
- f. What is the velocity 2.00 seconds after launch?
- g. What is the velocity on impact?