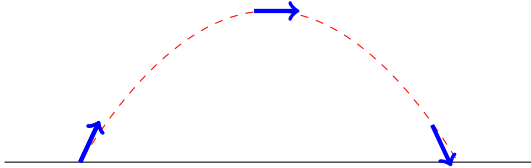# Projectile Motion - Quiz II

An arrow is shot with a velocity of 120 m/s at a 72° angle.

(a) Label this diagram of the situation and **make a T-chart** to list your knowns and unknowns. (3 points)

(b) Draw a triangle and calculate the x- and y- velocities of the arrow at the moment it is shot into the air. (3 points)

(c) What is the maximum height that the arrow will reach? (3 points)

(d) How long will the arrow be in the air? (3 points)

(e) How far forward will the arrow go before hitting the ground? (3 points)