FUNCTIONS

The *Recipes* of Mathematics

FUNCTIONS

The *Recipes* of Mathematics

Bœuf bourguignon = **f** (Burgundy wine, beef stock, carrots, onions, garlic, mushrooms, bacon, bouquet garni)

Quadratic Functions

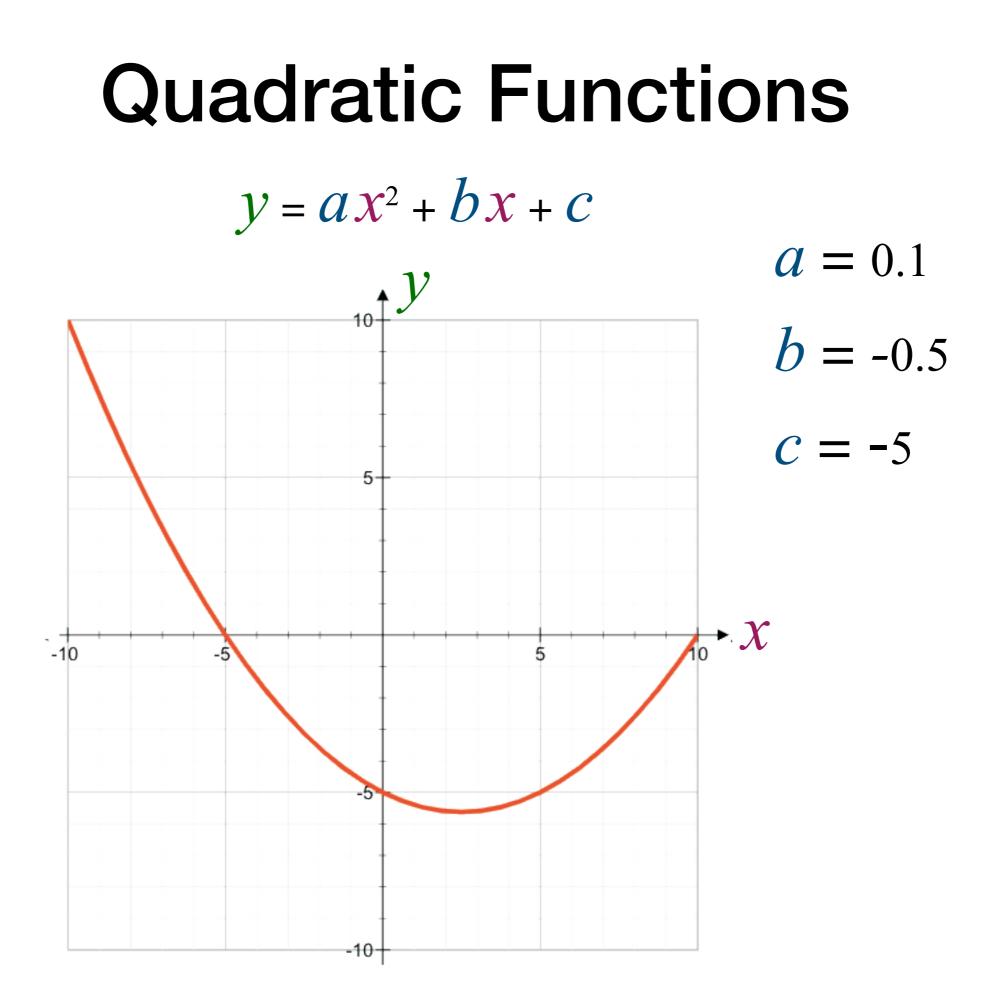
Quadratic Functions

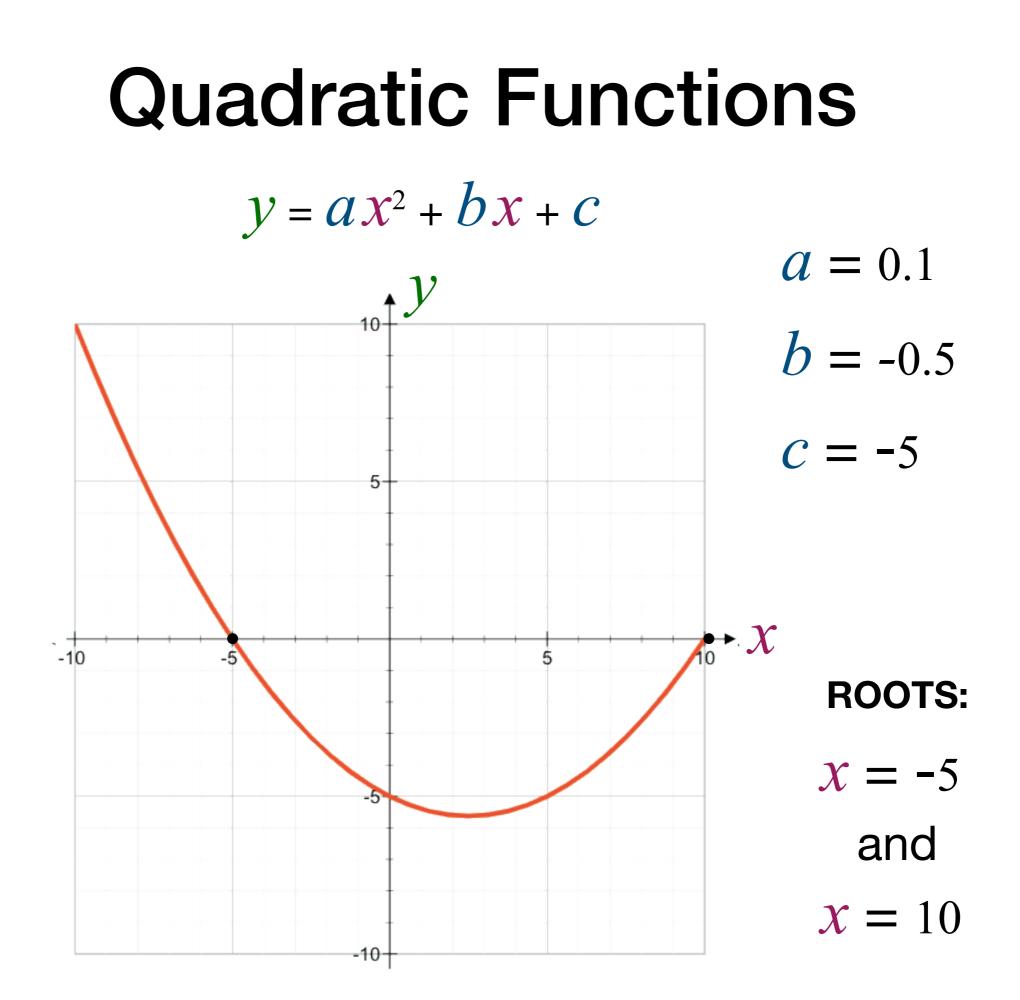
 $y = ax^2 + bx + c$

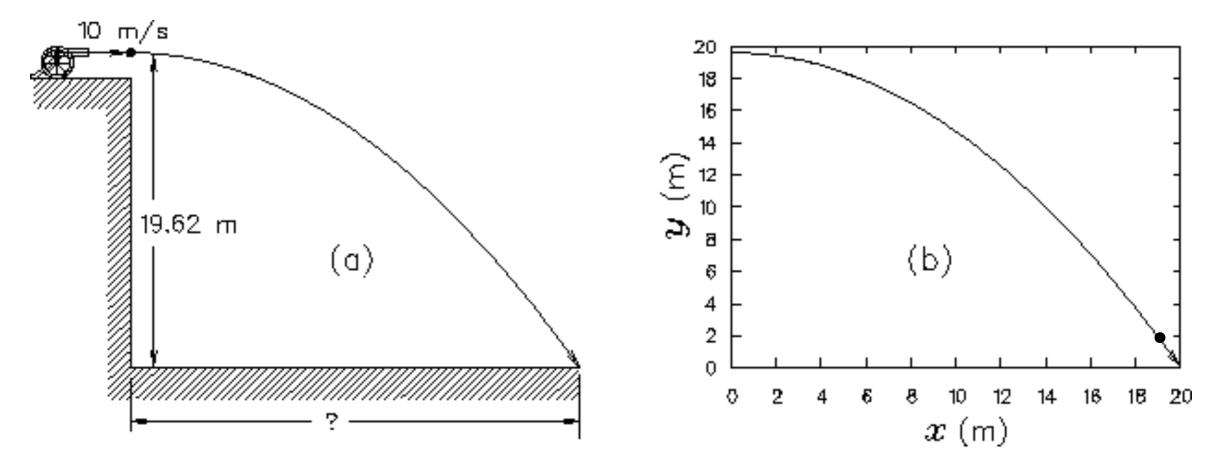
Quadratic Functions

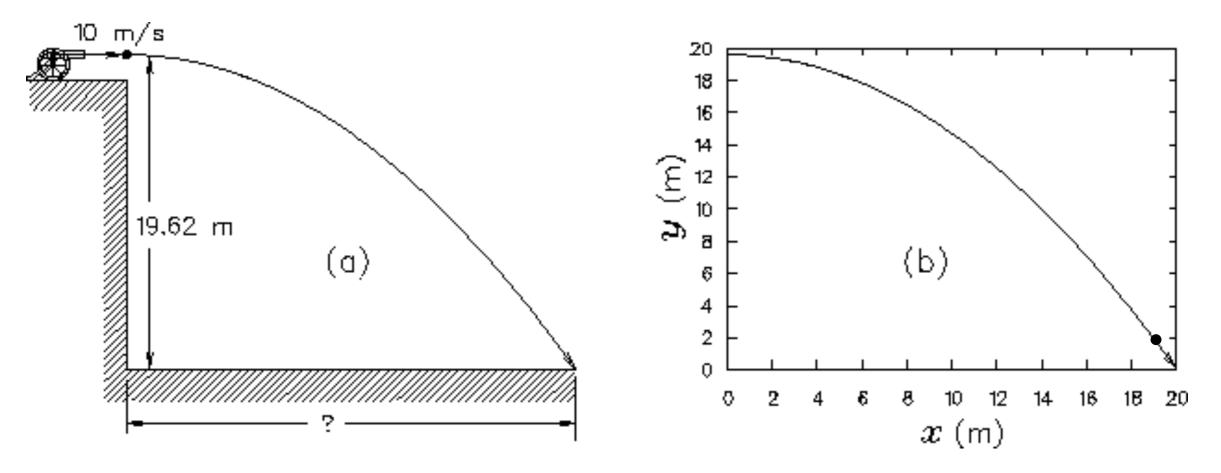
 $y = ax^{2} + bx + c$ a = 0.1b = -0.5

c = -5

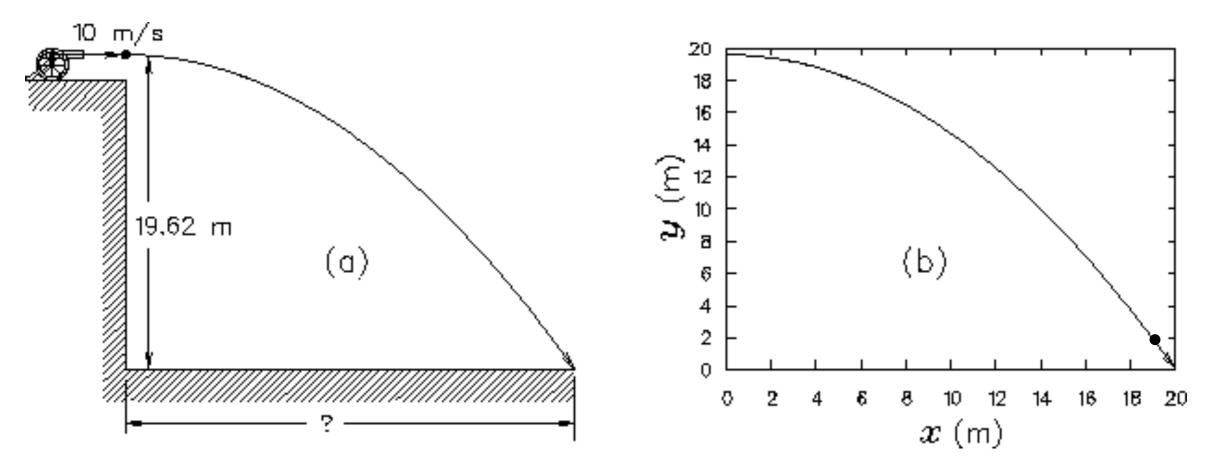




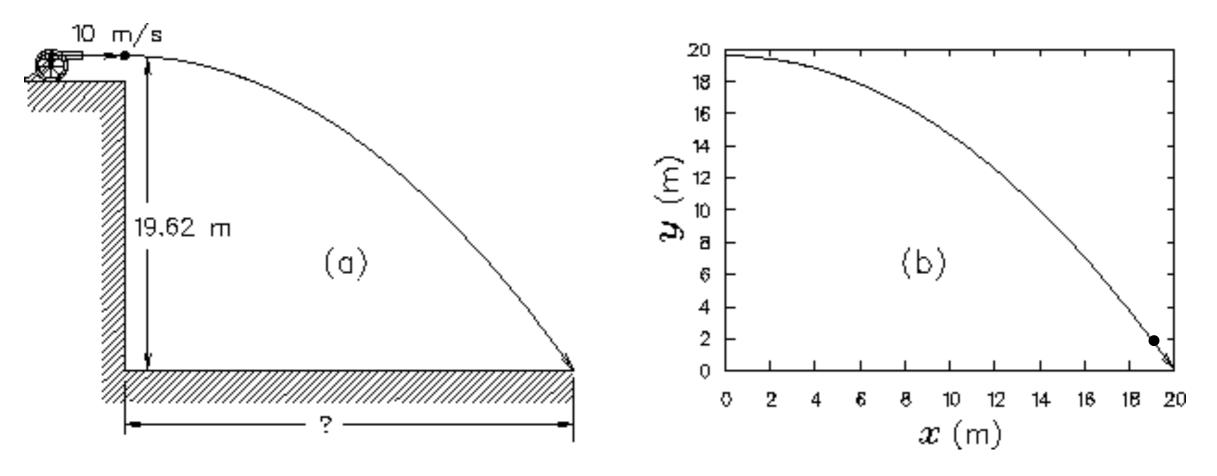




 $y = \text{height (m)}, \quad t = \text{time (s)}, \quad g = 9.81 \text{ m/s}^2$ (accel. of gravity)



 $y = \text{height (m)}, \quad t = \text{time (s)}, \quad g = 9.81 \text{ m/s}^2 \text{ (accel. of gravity)}$ $y = c - \frac{1}{2}gt^2 \qquad x = 10t \qquad t = 0.1x$



y = height (m), t = time (s), $g = 9.81 \text{ m/s}^2$ (accel. of gravity) y = $c - \frac{1}{2}gt^2$ x = 10t t = 0.1xy = $ax^2 + bx + c$ with a = -0.04905, b = 0, c = 19.62

