In your DrScheme environment type in the following program:

;;; discriminant: number number number -> number
(define (discriminant a b c)
  (sqrt (- (sqr b) (* 4 (* a c)))))

;;; solve: number number number -> list of 2 numbers
(define (solve a b c)
  (list (- (- (/ b (* 2 a))) (/ (discriminant a b c) (* 2 a)))
        (+ (- (/ b (* 2 a))) (/ (discriminant a b c) (* 2 a)))))

;;; equation: number number -> list of three numbers
(define (equation x y)
  (list 1 (- (+ x y)) (* x y)))

1. (8 pts) Now in your interactions window, type in the following and record the results:

(a) (equation -2 3)
(b) (solve 1 -1 -1)
(c) (equation 3 5)
(d) (solve 2 -16 30)

2. (4 pts) Explain what solve, equation and discriminant do?