

$$b^2 - 4ac$$

$$9) 2x^2 - 3x + 2 = 0$$

$$a=2 \quad b=-3 \quad c=2$$

$$(-3)^2 - 4(2)(2)$$

$$9 - 16 = -7$$

2 - imaginary

$$10) 3x^2 - 6x + 2 = 0$$

$$a=3 \quad b=-6 \quad c=2$$

$$(-6)^2 - 4(3)(2)$$

$$36 - 24 = 12$$

2 real

$$11) 3x + 7 = -5x^2 - 4$$

~~ax^2 + bx + c = 0~~

$$5x^2 + 3x + 11 = 0$$

$$a=5 \quad b=3 \quad c=11$$

$$(3)^2 - 4(5)(11)$$

$$9 - 220$$

2 - imaginary

$$12) -3x^2 + 17x - 2 = 3$$

$$a=-3 \quad b=17 \quad c=-5$$

$$(17)^2 - 4(-3)(-5)$$

$$289 - 60$$

2 - real

$$13) 25x^2 - 15x - 64 = 5x - 10$$

$$25x^2 - 20x - 54 = 0$$

$$a=25 \quad b=-20 \quad c=-54$$

$$(-20)^2 - 4(25)(-54)$$

$$400 + 5400 = 5800$$

2 - real