Solución

1)
$$+2x^2 + 3x + 5$$

$$\frac{-(3)\pm\sqrt{3^2-4(2)(+5)}}{2(2)}$$

$$x_1 = -3/1 + 1.3919410907075054i$$

$$x_2 = -3/1 - 1.3919410907075054i$$

2)
$$-7x^2 - 3x - 3$$

$$\frac{-(-3)\pm\sqrt{-3^2-4(-7)(-3)}}{2(-7)}$$

$$x_1 = 3/1 - 0.618589574131742i$$

$$x_2 = 3/1 + 0.618589574131742i$$

3)
$$-4x^2 + 3x - 8$$

$$\frac{-(3)\pm\sqrt{3^2-4(-4)(-8)}}{2(-4)}$$

$$x_1 = -3/1 - 1.3635890143294642i$$

$$x_2 = -3/1 + 1.3635890143294642i$$

1)
$$-3x^2 + 9x + 2$$

$$\frac{-(9)\pm\sqrt{9^2-4(-3)(+2)}}{2(-3)}$$

$$x_1 = -10.707825127659934$$

$$x_2 = -7.292174872340067$$

$$2) +4x^2 -7x +7$$

$$\frac{-(-7)\pm\sqrt{-7^2-4(4)(+7)}}{2(4)}$$

$$x_1 = 7/1 + 0.9921567416492215i$$

$$x_2 = 7/1 - 0.9921567416492215i$$

3)
$$+4x^2 - 8x + 6$$

$$\frac{-(-8)\pm\sqrt{-8^2-4(4)(+6)}}{2(4)}$$

$$x_1 = 8/1 + 0.7071067811865476i$$

$$x_2 = 8/1 - 0.7071067811865476i$$

1)
$$+5x^2 - 9x - 6$$

$$\frac{-(-9)\pm\sqrt{-9^2-4(5)(-6)}}{2(5)}$$

$$x_1 = 10.417744687875782$$

$$x_2 = 7.582255312124218$$

2)
$$-7x^2 - 8x - 8$$

$$\frac{-(-8)\pm\sqrt{-8^2-4(-7)(-8)}}{2(-7)}$$

$$x_1 = 8/1 - 0.9035079029052513i$$

$$x_2 = 8/1 + 0.9035079029052513i$$

3)
$$-2x^2 - 6x - 5$$

$$\frac{-(-6)\pm\sqrt{-6^2-4(-2)(-5)}}{2(-2)}$$

$$x_1 = 6/1 - 0.5i$$

$$x_2 = 6/1 + 0.5i$$

1)
$$-9x^2 + 7x0$$

$$\frac{-(7)\pm\sqrt{7^2-4(-9)(0)}}{2(-9)}$$

$$x_1 = -7.388888888888889$$

$$x_2 = -6.611111111111111111$$

2)
$$-8x^2 - 5x - 6$$

$$\frac{-(-5)\pm\sqrt{-5^2-4(-8)(-6)}}{2(-8)}$$

$$x_1 = 5/1 - 0.8076779989575054i$$

$$x_2 = 5/1 + 0.8076779989575054i$$

3)
$$+6x^2 - 5x - 8$$

$$\frac{-(-5)\pm\sqrt{-5^2-4(6)(-8)}}{2(6)}$$

$$x_1 = 6.227576655221353$$

$$x_2 = 3.7724233447786473$$

1)
$$-5x^2 + 4x - 7$$

$$\frac{-(4)\pm\sqrt{4^2-4(-5)(-7)}}{2(-5)}$$

$$\begin{array}{l} x_1 = -4/1 - 1.1135528725660042i \\ x_2 = -4/1 + 1.1135528725660042i \end{array}$$

$$2) +8x^2 + 3x + 7$$

$$\frac{-(3)\pm\sqrt{3^2-4(8)(+7)}}{2(8)}$$

$$x_1 = -3/1 + 0.9164298936634487i$$

 $x_2 = -3/1 - 0.9164298936634487i$

3)
$$-2x^2 - 7x + 5$$

$$\frac{-(-7)\pm\sqrt{-7^2-4(-2)(+5)}}{2(-2)}$$

$$x_1 = 4.64150471698585$$

$$x_2 = 9.35849528301415$$

1)
$$+3x^2 + 5x - 4$$

$$\frac{-(5)\pm\sqrt{5^2-4(3)(-4)}}{2(3)}$$

$$x_1 = -3.5759993757804116$$

$$x_2 = -6.424000624219588$$

$$2) +3x^2 -7x0$$

$$\frac{-(-7)\pm\sqrt{-7^2-4(3)(0)}}{2(3)}$$

$$x_1 = 8.16666666666666$$

$$3) +3x^2 +5x +4$$

$$\frac{-(5)\pm\sqrt{5^2-4(3)(+4)}}{2(3)}$$

$$x_1 = -5/1 + 0.7993052538854531i$$

$$x_2 = -5/1 - 0.7993052538854531i$$

1)
$$+9x^2 + 8x + 9$$

$$\frac{-(8)\pm\sqrt{8^2-4(9)(+9)}}{2(9)}$$

$$x_1 = -8/1 + 0.8958064164776166i$$

 $x_2 = -8/1 - 0.8958064164776166i$

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

$$\frac{-(-9)\pm\sqrt{-9^2-4(-3)(+3)}}{2(-3)}$$

$$x_1 = 7.197224362268005$$

 $x_2 = 10.802775637731994$

3)
$$-9x^2 + 8x - 7$$

$$\frac{-(8)\pm\sqrt{8^2-4(-9)(-7)}}{2(-9)}$$

$$x_1 = -8/1 - 0.7617394000445604i$$

$$x_2 = -8/1 + 0.7617394000445604i$$

1)
$$-3x^2 - 7x - 8$$

$$\frac{-(-7)\pm\sqrt{-7^2-4(-3)(-8)}}{2(-3)}$$

$$x_1 = 7/1 - 1.1426091000668406i$$

$$x_2 = 7/1 + 1.1426091000668406i$$

2)
$$-3x^2 + 3x + 3$$

$$\frac{-(3)\pm\sqrt{3^2-4(-3)(+3)}}{2(-3)}$$

$$x_1 = -4.118033988749895$$

$$x_2 = -1.881966011250105$$

$$3) +7x^2 + 8x + 6$$

$$\frac{-(8)\pm\sqrt{8^2-4(7)(+6)}}{2(7)}$$

$$x_1 = -8/1 + 0.7284313590846835i$$

$$x_2 = -8/1 - 0.7284313590846835i$$

1)
$$-6x^2 - 2x + 4$$

$$\frac{-(-2)\pm\sqrt{-2^2-4(-6)(+4)}}{2(-6)}$$

$$x_1 = 1.1666666666666666$$

$$x_2 = 2.83333333333333333$$

$$2) -8x^2 + 8x + 1$$

$$\frac{-(8)\pm\sqrt{8^2-4(-8)(+1)}}{2(-8)}$$

$$x_1 = -8.612372435695795$$

$$x_2 = -7.387627564304205$$

$$3) +7x^2 + 8x0$$

$$\frac{-(8)\pm\sqrt{8^2-4(7)(0)}}{2(7)}$$

$$x_1 = -7.428571428571429$$

$$x_2 = -8.571428571428571$$

1)
$$+4x^2 - 2x + 8$$

$$\frac{-(-2)\pm\sqrt{-2^2-4(4)(+8)}}{2(4)}$$

$$\begin{array}{l} x_1 = 2/1 + 1.3919410907075054i \\ x_2 = 2/1 - 1.3919410907075054i \end{array}$$

$$x_2 = 2/1 - 1.3919410907075054i$$

2)
$$+6x^2 + 3x - 7$$

$$\frac{-(3)\pm\sqrt{3^2-4(6)(-7)}}{2(6)}$$

$$x_1 = -1.8913221086958274$$

$$x_2 = -4.108677891304173$$

$$3) -2x^2 - 9x - 1$$

$$\frac{-(-9)\pm\sqrt{-9^2-4(-2)(-1)}}{2(-2)}$$

$$x_1 = 6.863999063670617$$

$$x_2 = 11.136000936329383$$