

$$\begin{aligned}
 1) \quad & 2,5 \\
 & x = 2, \quad x = 5 \\
 & \frac{-2 \quad -2 \quad -5 \quad -5}{x-2=0 \quad x-5=0} \\
 & (x-2)(x-5) = 0 \\
 & x^2 - 5x - 2x + 10 = 0 \\
 & x^2 - 7x + 10 = 0
 \end{aligned}$$

$$\begin{aligned}
 3) \quad & 20,2 \\
 & x = 20 \quad x = 2 \\
 & \frac{-20 \quad -20 \quad -2 \quad -2}{x-20=0 \quad x-2=0} \\
 & (x-20)(x-2) = 0 \\
 & x^2 - 20x - 2x + 40 = 0 \\
 & 0 \\
 & x^2 - 22x + 40 = 0
 \end{aligned}$$

$$\begin{aligned}
 5) \quad & 4,4 \\
 & x = 4 \quad x = 4 \\
 & \frac{-4 \quad -4 \quad -4 \quad -4}{x-4=0 \quad x-4=0} \\
 & (x-4)(x-4) = 0 \\
 & x^2 - 4x - 4x + 16 = 0 \\
 & x^2 - 8x + 16 = 0
 \end{aligned}$$

$$\begin{aligned}
 7) \quad & 0,0 \\
 & x = 0, x = 0 \\
 & xx = 0 \\
 & x^2 = 0
 \end{aligned}$$

$$\begin{aligned}
 9) \quad & -4,11 \\
 & x = -4 \quad x = 11 \\
 & \frac{+4 \quad +4 \quad -11 \quad -11}{x+4=0 \quad x-11=0} \\
 & (x+4)(x-11) = 0 \\
 & x^2 + 4x - 11x - 44 = 0 \\
 & 0 \\
 & x^2 - 7x - 44 = 0
 \end{aligned}$$

$$\begin{aligned}
 11) \quad & \frac{3}{4}, \frac{1}{4} \\
 & 4(x) = \left(\frac{3}{4}\right)4, 4(x) = \\
 & \left(\frac{1}{4}\right)4 \\
 & 4x = 3 \quad 4x = 1 \\
 & \frac{-3 \quad -3 \quad -1 \quad -1}{4x-3=0 \quad 4x-1=0} \\
 & (4x-3)(4x-1) = 0 \\
 & 16x^2 - 12x - 4x + 3 = 0 \\
 & 0 \\
 & 16x^2 - 8x + 3 = 0
 \end{aligned}$$

$$\begin{aligned}
 13) \quad & \frac{1}{2}, \frac{1}{3} \\
 & (2)x = \frac{1}{2}(2) \quad (3)x = \\
 & \frac{1}{3}(3) \\
 & 2x = 1 \quad 3x = 1 \\
 & \frac{-1 \quad -1 \quad -1 \quad -1}{2x-1=0 \quad 3x-1=0} \\
 & (2x-1)(3x-1) = 0 \\
 & 6x^2 - 3x - 2x + 1 = 0 \\
 & 6x^2 - 5x + 1 = 0
 \end{aligned}$$

$$\begin{aligned}
 15) \quad & \frac{3}{7}, 4 \\
 & (7)x = \frac{3}{7}(x) \quad x = 4 \\
 & 7x = 3 \quad \frac{-4 \quad -4}{x-4=0} \\
 & \frac{-3 \quad -3}{7x-3=0} \\
 & (7x-3)(x-4) = 0 \\
 & 7x^2 - 3x - 28x + 12 = 0 \\
 & 0 \\
 & 7x^2 - 31x + 12 = 0
 \end{aligned}$$

$$\begin{aligned}
 17) \quad & -\frac{1}{3}, \frac{5}{6} \\
 & (3)x = -\frac{1}{3}(3) \quad 6(x) = \\
 & \frac{5}{6}(6) \\
 & 3x = -1 \quad 6x = 5 \\
 & \frac{+1 \quad +1 \quad -5 \quad -5}{3x+1=0 \quad 6x-5=0} \\
 & (3x+1)(6x-5) = 0 \\
 & 18x^2 + 6x - 15x - 5 = 0 \\
 & 0 \\
 & 18x^2 - 9x - 5 = 0
 \end{aligned}$$

$$\begin{aligned}
 19) \quad & -6, \frac{1}{9} \\
 & x = -6 \quad (9)x = \frac{1}{9}(9) \\
 & \frac{+6 \quad +6 \quad 9x = 1}{x+6=0 \quad \frac{-1 \quad -1}{9x-1=0}} \\
 & (x+6)(9x-1) = 0 \\
 & 9x^2 + 54x - x - 6 = 0 \\
 & 9x^2 - 53x - 6 = 0
 \end{aligned}$$

$$\begin{aligned}
 21) \quad & \pm 5 \\
 & x^2 = (\pm 5)^2 \\
 & x^2 = 25 \\
 & \frac{-25 \quad -25}{x^2-25=0}
 \end{aligned}$$

$$\begin{aligned}
 23) \quad & \pm \frac{1}{5} \\
 & x^2 = \left(\pm \frac{1}{5}\right)^2 \\
 & (25)x^2 = \frac{1}{25}(25) \\
 & 25x^2 = 1 \\
 & \frac{-1 \quad -1}{25x^2-1=0}
 \end{aligned}$$

$$25) \pm\sqrt{11}$$

$$x^2 = (\pm\sqrt{11})^2$$

$$x^2 = 11$$

$$\frac{-11 \quad -11}{x^2 - 11} = 0$$

$$27) \pm\frac{\sqrt{3}}{4}$$

$$4x = \pm\frac{\sqrt{3}}{4} (4)$$

$$(4x)^2 = (\pm\sqrt{3})^2$$

$$16x^2 = 3$$

$$\frac{-3 \quad -3}{16x^2 - 3} = 0$$

$$29) \pm i\sqrt{13}$$

$$x^2 = (\pm i\sqrt{13})^2$$

$$x^2 = -13$$

$$\frac{+13 \quad +13}{x^2 + 13} = 0$$

$$31) 2 \pm \sqrt{6}$$

$$x = 2 \pm \sqrt{6}$$

$$\frac{-2 \quad -2}{(x-2)^2 = (\pm\sqrt{6})^2}$$

$$x^2 - 4x + 4 = 6$$

$$\frac{-6 \quad -6}{x^2 - 4x - 2} = 0$$

$$33) 1 \pm 3i$$

$$x = 1 \pm 3i$$

$$\frac{-1 \quad -1}{(x-1)^2 = (\pm 3i)^2}$$

$$x^2 - 2x + 1 = -9$$

$$\frac{+9 \quad +9}{x^2 - 2x + 10} = 0$$

$$35) 6 \pm i\sqrt{3}$$

$$x = 6 \pm i\sqrt{3}$$

$$\frac{-6 \quad -6}{(x-6)^2 = (\pm i\sqrt{3})^2}$$

$$x^2 - 12x + 36 = -3$$

$$\frac{+3 \quad +3}{x^2 - 12x + 39} = 0$$

$$37) \frac{-1 \pm \sqrt{6}}{2}$$

$$(2)x = \frac{-1 \pm \sqrt{6}}{2} (2)$$

$$2x = -1 \pm \sqrt{6}$$

$$\frac{+1 \quad +1}{(2x+1)^2 = (\pm\sqrt{6})^2}$$

$$4x^2 + 4x + 1 = 6$$

$$\frac{-6 \quad -6}{4x^2 + 4x - 5} = 0$$

$$39) \frac{6 \pm i\sqrt{2}}{8}$$

$$(8)x = \frac{6 \pm i\sqrt{2}}{8} (8)$$

$$8x = 6 \pm i\sqrt{2}$$

$$\frac{-6 \quad -6}{(8x-6)^2 = (\pm i\sqrt{2})^2}$$

$$64x^2 - 96x + 36 = -2$$

$$\frac{+2 \quad +2}{64x^2 - 96x + 38} = 0$$