

3.6 – Solve by Factoring Textbook HW

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SOLVING EQUATIONS Find the real-number solutions of the equation.

68. $x^3 - 3x^2 = 0$

69. $2x^3 - 6x^2 = 0$

70. $3x^4 + 15x^2 - 72 = 0$

71. $x^3 + 27 = 0$

72. $x^3 + 2x^2 - x = 2$

73. $x^4 + 7x^3 - 8x - 56 = 0$

74. $2x^4 - 26x^2 + 72 = 0$

75. $3x^7 - 243x^3 = 0$

76. $x^3 + 3x^2 - 2x - 6 = 0$

77. $8x^3 - 1 = 0$

78. $x^3 + 8x^2 = -16x$

79. $x^3 - 5x^2 + 5x - 25 = 0$

80. $3x^4 + 3x^3 = 6x^2 + 6x$

81. $x^4 + x^3 - x = 1$

82. $4x^4 + 20x^2 = -25$

83. $-2x^6 = 16$

84. $3x^7 = 81x^4$

85. $2x^5 - 12x^3 = -16x$

Objective You have now factored several different types of polynomials.