

Solutions

9.1A $4x^3 + 2x^2 - x + 5$

9.1B LC: 2, Degree: 2, # of terms: 3

9.1C $2x^2 + 3x - 1$

9.1D $D = \$19738.68, I = \$27,754.68$

9.2A $6x^3 - 3x^2 + 9x$

9.2B $2x^2 + 5x - 12$

9.2C a) $A = 4x^2 + 84x + 440$ b) 840 in^2

9.3A $4x^2 - 12x + 9$

9.3B $x^2 - 4$

9.3C $x^2 + 6x + 9$

9.3D a) 75% b) $(B+r)(B+r)$

9.4A $x = 5, -\frac{1}{2}$

9.4B $2a(a^2 + 5a - 10)$

9.4C $x = 0, -4$

9.4D .225 seconds

9.5A $(x - 8)(x - 6)$

9.5B $x = -9, x = 6$

9.5C $x = -2, x = 7$ 9.5D 3 feet

9.6A $(2x - 1)(x + 3)$

9.6B $x = 2, x = \frac{-1}{3}$

9.6C $x = \frac{1}{2}, x = \frac{-3}{2}$

9.6D a) $h = -16t^2 + 46t + 6$

b) 3 seconds

9.7A $(2x - 3)(2x + 3)$

9.7B $(x - 4)(x - 4)$

9.7C $x = -\frac{1}{2}$

9.7D 2 seconds

9.8A $(3x + 2)(x - 2)$

9.8B $(x^2 + 3)(x + 2)$

9.8C $2x(2x + 1)(x + 1)$

9.8D $x = 1, x = -1, x = -5$

9.8E $6 \times 16 \times 12$
