

3.79  
22

$$p(2) = 0 = 32 - 80 + 88 + 4a + 2b + c$$

$$-40 = 4a + 2b + c$$

$$p(1) = 9 = 1 - 5 + 11 + a + b + c$$

$$+2 = a + b + c$$

$$42 = -3a + b$$

$$p'(x) = 5x^4 - 20x^3 + 33x^2 + 2ax + b$$

$$p'(2) = 0 = 80 - 160 + 132 + 4a + b$$

$$\left. \begin{array}{l} -52 = 4a + b \\ 42 = -3a - b \end{array} \right\}$$

$$a = -10, b = -12, c = 24$$