

4.15
7

$$p(x) = x(x+1)^2 a(x) + 0$$

$$p(0) = c = 0$$

$$p(-1) = 0 = a - b + 5 + 2 + 1 - 1 \rightarrow a - b = -7$$

$$p'(x) = 6ax^5 + 5bx^4 + 20x^3 - 6x^2 + 2x + 1$$

$$p'(-1) = 0 = -6a + 5b + 20 - 6 - 2 + 1 \rightarrow 27 = -6a + 5b$$

$$a = 8$$

$$b = 15$$

2.20