

3.63
k3

$$p(1) = 0, p(2) = 7, p(-1) = -2$$

$$p(x) = (x-2)(x^2-1)q(x) + ax^2 + bx + c$$

$$p(1) = 0 = a + b + c$$

$$p(2) = 7 = 4a + 2b + c$$

$$p(-1) = -2 = a - b + c$$

$$2 = 2b \rightarrow b = 1$$

$$a + c = -1$$

$$4a + c = 5$$

$$2x^2 + x - 3$$

$$\rightarrow a = 2$$

$$c = -3$$

:= jakes