

Written assignments
to hand in.

Section 3.1

32, 34

due Tuesday 11/7

Focus on modeling

69 in sec 3.1

22 Focus on modeling
at the end of
Chapter 2

due Wednesday 11/8

Section 3.2

26, 38

due Monday 11/13

Section 3.3

12, 58

due Tuesday 11/14

Discussion Problems

From the department syllabus

These are not to hand in.

Section 3.2,

3.3: 15-23 odd, 41-47 odd

WebAssign

3.1+3.2 Sunday 11/12 9pm

University Closed
on 11/10 Veteran's Day.
Friday.

Section 3.2

9 III

10 I

11 IV

$$f(x) = \frac{1}{2}x^6 - 2x^4$$

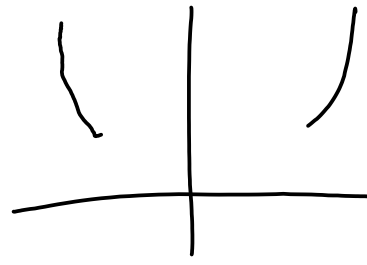
$$f(2) = \frac{1}{2}64 - 2 \cdot 16 = 32 - 32 = 0 \text{ so II} \leftrightarrow 12$$

12 II

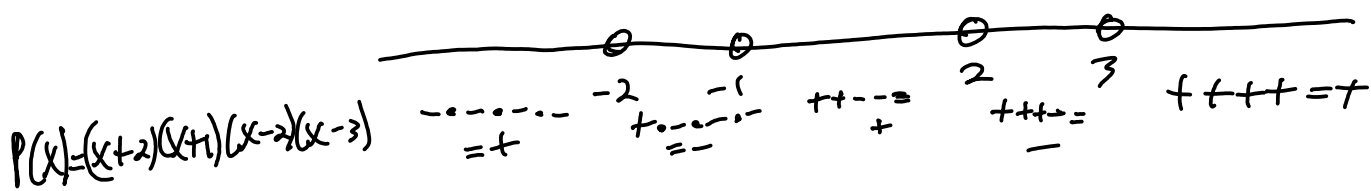
13 VI

14 IV

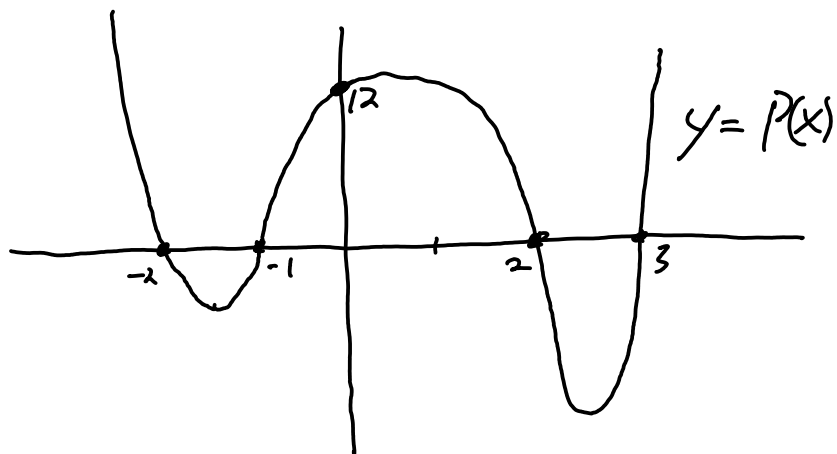
(21) Sketch the graph of $P(x) = (x+2)(x+1)(x-2)(x-3) = x^4 + \dots$
degree $P(x)$ is 4 with leading term x^4



x-intercepts
 $x = -2, -1, 2, 3$



y-intercept
 $P(0) = 2 \cdot (-2) \cdot (-3) = 12$



(39)

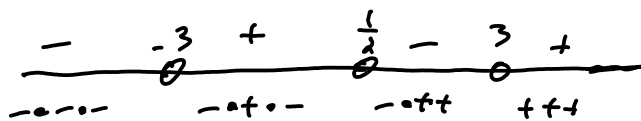
$$P(x) = 2x^3 - x^2 - 18x + 9$$

$$= (2x^2 - x^2) + (-18x + 9)$$

$$= x^2(2x-1) - 9(2x-1)$$

$$= (x^2 - 9)(2x-1)$$

$$= (x-3)(x+3)(2x-1)$$



$$P(0) = 9$$

