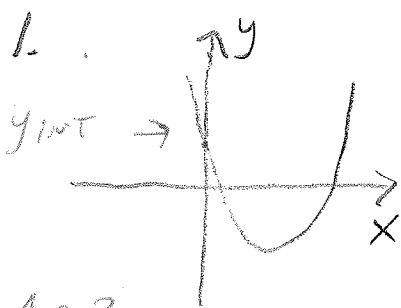


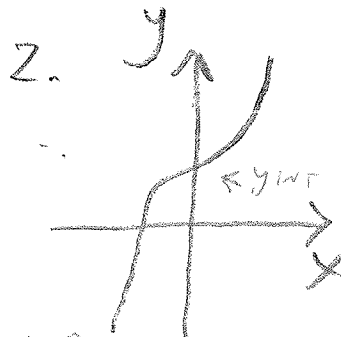
Sheet

KEY

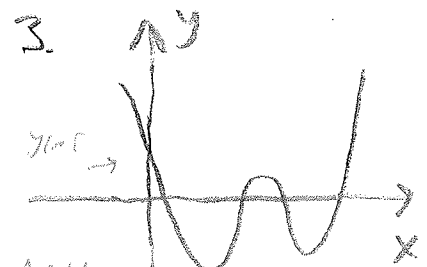
#320. POLYNOMIALS = LONG-TERM BEHAVIOR & INTERCEPTS



A = 2
 B = LEFT RISE
 RIGHT RISE
 C = 2
 D = ⊕



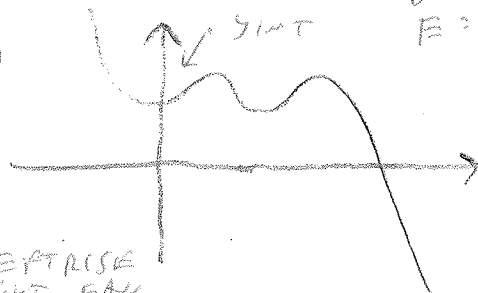
A = 3
 B = LEFT FALL
 RIGHT RISE
 C = 3
 D = ⊕



A = 4
 B = LEFT RISE
 RIGHT RISE
 C = 4
 D = ⊕

4. $3x^3 + x^2 - 1$

A = 3
 B = LEFT FALL
 RIGHT RISE
 C = 1
 D = ⊕
 E = -1



5. $(x+1)(x-1)(x+2)(x-3)(x+3)$

A = 5
 B = LEFT FALL
 RIGHT RISE
 C = 1
 D = ⊕
 E = $1 \cdot -1 \cdot 2 \cdot -3 \cdot 3 = -18$



A = 5
 B = LEFT RISE
 RIGHT FALL
 C = 1
 D = ⊖

7. $-x^8 + x^{17} - 3$

A = 17
 B = LEFT FALL
 RIGHT RISE
 C = 1
 D = ⊕
 E = -3

QUESTIONS

- STATE SMALLEST POSSIBLE DEGREE
- RISE OR FALL?
 - Left $x \rightarrow -\infty$
 - Right $x \rightarrow \infty$
- NUMBER OF X-INTERCEPTS
- LEADING COEFFICIENT = POSITIVE OR NEGATIVE?
- Y-INTERCEPT (NUMBER OR PUT ARROW ON GRAPH)