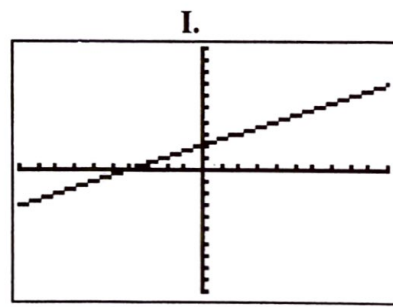
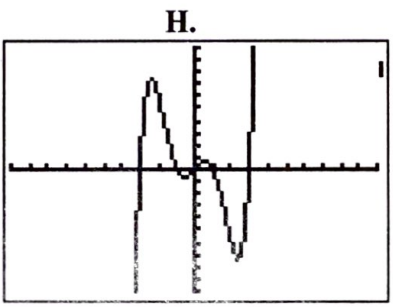
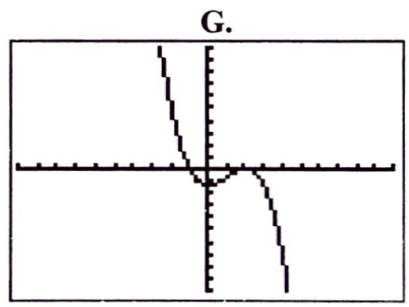
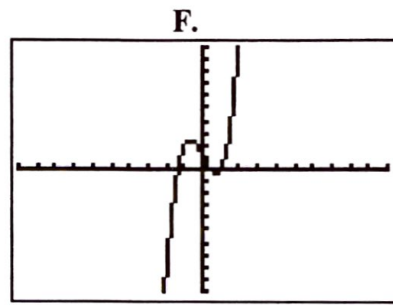
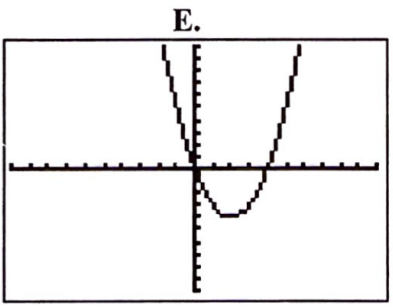
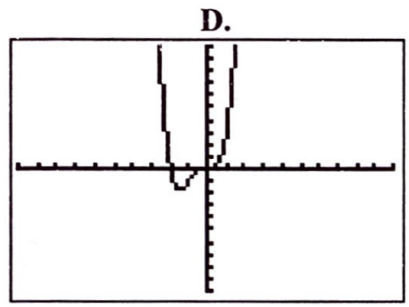
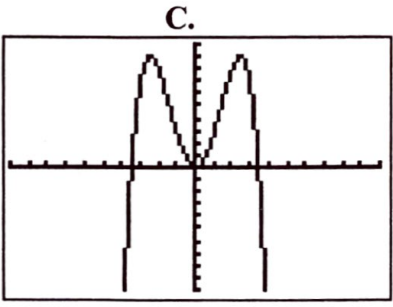
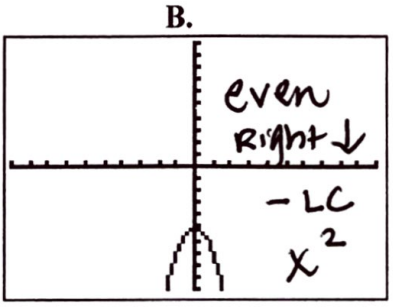
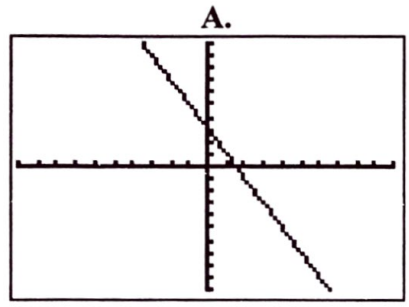


P.14

Describe the end behavior of the graph of the polynomial function WITHOUT graphing.



E 12.  $f(x) = x^2 - 4x$   
 ↓ LC + / degree = even = 2  
 = 2 → 1 turn

I 13.  $f(x) = \frac{1}{2}x + 2$   
 ↗ right up degree = 1  
 ↘ left down 0 turns

A 14.  $f(x) = -2x + 3$

F 15.  $f(x) = 2x^3 - 3x + 1$

B 16.  $f(x) = -2x^2 - 5$   
 2 turns

D 17.  $f(x) = x^4 + 2x^3$

G 18.  $f(x) = -\frac{1}{3}x^3 + x^2 - \frac{4}{3}$   
 ↗ right down / degree = 3  
 ↖ up left

C 19.  $f(x) = -\frac{1}{4}x^4 + 3x^2$   
 ↗ right down / left down  
 degree = 4  
 3 turns

H 20.  $f(x) = \frac{1}{5}x^5 - 2x^3 + \frac{9}{5}$   
 ↗ right up degree = 5  
 ↖ left - down  
 4 turns