Name: _____ Date: _____

Algebra II Graphing Polynomial Functions Worksheet

For each of the following, a) give the x-intercepts as ordered pairs, b) the y-intercept as an ordered pair and c) find the end behavior, d)find the behavior at each zero, e)the possible number of turning points, and f) graph and label the zeros with (s, t, or cc).

1. $P(x) = x^2(x-2)(x+2)$

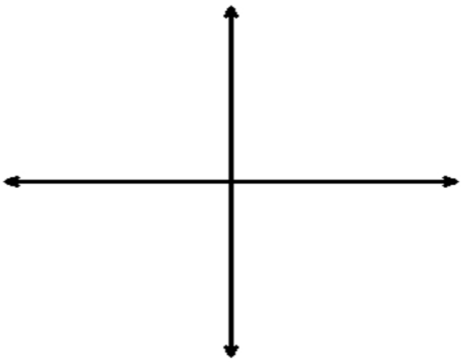
a. x-intercept(s):_____

b. y-intercept:_____

c. End Behavior: _____

d. Behavior at the zeros:

e. Possible number of turning points:_____



2. $P(x) = (x-1)(x+3)^4$

a. x-intercept(s):_____

b. y-intercept:_____

c. End Behavior: _____

d. Behavior at the zeros:

e. Possible number of turning points:_____