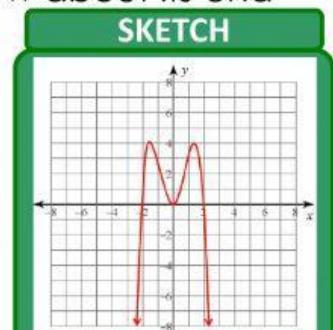## Activity: **Behavior of the Graph of a Polynomial Function**

Match the graph to the polynomial function. Use what you know about its end behavior and number of turning points.

SKETCH

1. $f(x) = x^3 - 4x^2 + 5$

Degree	
Sign of Leading Coefficient	
End Behavior	_____ to the left and _____ to the right
Turning Points	at most _____

Sketch of the graph:

2. $f(x) = -x^5 + 4x^3 - 4x$

Degree	
Sign of Leading Coefficient	
End Behavior	_____ to the left and _____ to the right
Turning Points	at most _____
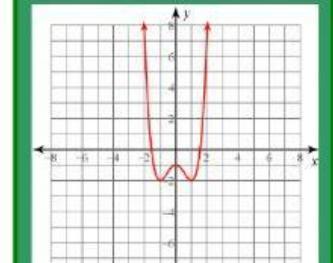
Sketch of the graph:

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

Degree	
Sign of Leading Coefficient	
End Behavior	_____ to the left and _____ to the right
Turning Points	at most _____

Sketch of the graph:
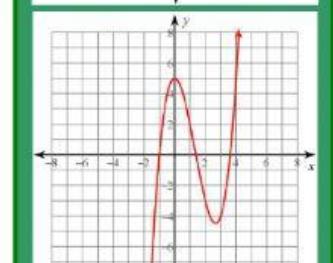
How many attempts? ____. How well did you do?	😂 ⬚ Need help!	🙂 ⬚ Just OK!	😁 ⬚ Splendid

I HAVE TO KEEP IN MIND THAT...

_____

_____

_____

Prepared by: **QUEENIE PEARL E. DOMINE** LIVEWORKSHEETS