

NAME

QUARTER

GRADE &amp; SECTION

DATE

## Activity: Intercepts and Zeros of a Polynomial Function

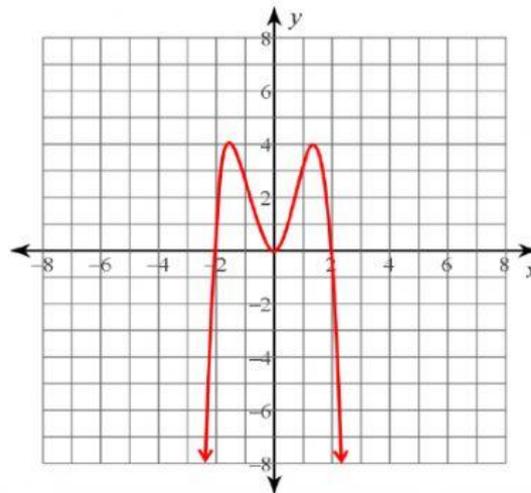
Determine the intercepts of the given polynomial function and the behavior of the graph relative to x-axis at its root.

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

The y-intercept is

| Zeros | Multiplicity | Characteristic of Multiplicity | Behavior of the graph relative to x-axis at its root |
|-------|--------------|--------------------------------|--|
|       |              |                                |  |
|       |              |                                |  |
|       |              |                                |  |

2.  $g(x) = -x^4 + 4x^2$



The y-intercept is

| Zeros | Characteristic of Multiplicity | Behavior of the graph relative to x-axis at its root |
|-------|--------------------------------|--|
|       |                                |  |
|       |                                |  |
|       |                                |  |

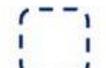
How many attempts? \_\_\_\_.  
How well did you do?



Need help!



Just OK!



Splendid



I HAVE TO KEEP IN MIND THAT...

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