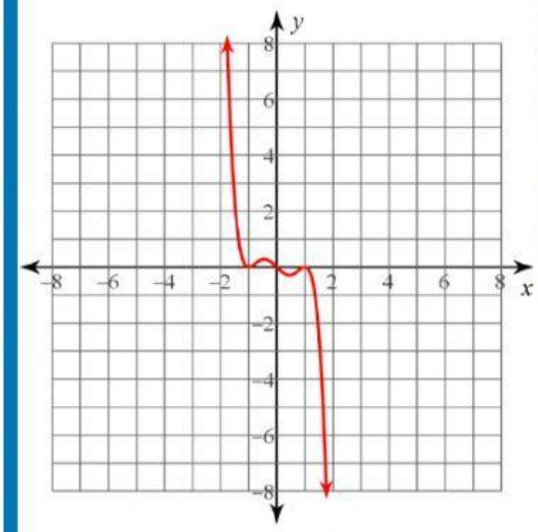
NAME _____ QUARTER _____

GRADE & SECTION _____ DATE _____

Activity: Graph of a Polynomial Function

Describe the given graph of a polynomial function.

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



end behavior of the graph ⇨ _____

Degree ⇨ _____

Sign of the leading coefficient ⇨ _____

no. of turning points ⇨ _____

y-intercept ⇨ y = _____

x-intercepts ⇨ x = _____ , _____ , _____

multiplicity of zeros

The graph _____ the x-axis at _____ ⇨ _____ has _____ multiplicity

The graph _____ the x-axis at _____ ⇨ _____ has _____ multiplicity

The graph _____ the x-axis at _____ ⇨ _____ has _____ multiplicity

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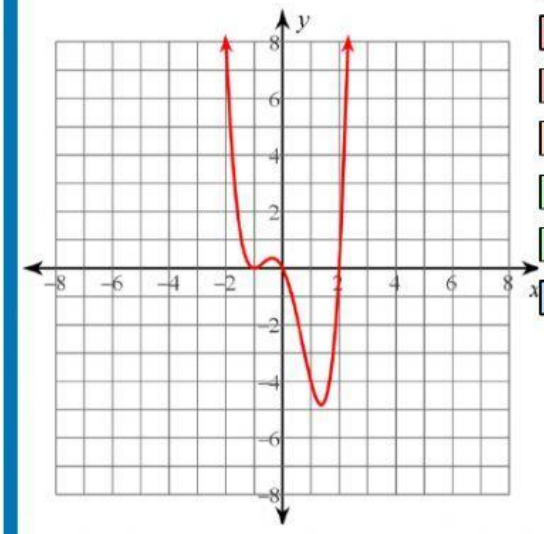
2. $f(x) = x^4 - 3x^2 - 2x$



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Degree ⇨ _____

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y-intercept ⇨ y = _____

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multiplicity of zeros

The graph _____ the x-axis at _____ ⇨ _____ has _____ multiplicity

The graph _____ the x-axis at _____ ⇨ _____ has _____ multiplicity

The graph _____ the x-axis at _____ ⇨ _____ has _____ multiplicity

How many attempts? ___.
How well did you do?

 ☐ Need help!

 ☐ Just OK!

 ☐ Splendid

I FEEL THAT...

_____

_____

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