

UNIT 1 - LESSON PLANS

Class PreCalculus Topic Analyzing Graphs of Functions and Relations Lesson 2 Of 1

Objective	Students will:
	<ul style="list-style-type: none">Analyze graphs of functions and relations (x and y – intercepts, zeros, symmetry, even and odd functions)
“I Can” Statement	I can analyze graphs of functions and relations (x and y – intercepts, zeros, symmetry, even and odd functions)

Common Core Standards	<p>CCSS.MATH.CONTENT.HSF.IF.C.7.A Graph linear and quadratic functions and show intercepts, maxima, and minima.</p> <p>CCSS.MATH.CONTENT.HSF.IF.C.7.B Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.</p> <p>CCSS.MATH.CONTENT.HSF.IF.C.7.C Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior.</p> <p>CCSS.MATH.CONTENT.HSF.IF.C.7.D (+) Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available, and showing end behavior.</p> <p>CCSS.MATH.CONTENT.HSF.IF.C.8 Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.</p> <p>CCSS.MATH.CONTENT.HSF.IF.C.8.A Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.</p> <p>CCSS.MATH.CONTENT.HSF.IF.B.4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.*</p>
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Bell Work See 1-2 Bell work

Procedures	<ol style="list-style-type: none">1. Start and lead student discussion related to the bell work.2. Distribute the Guided Notes3. Present lesson or play a video lesson.4. Use an Online Activity if time permitted.
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5. Distribute Lesson Assignment.

Assessment

Bell Work 1-2
Assignment 1-2
Exit Quiz 1-2

Additional Resources

See Online Activities