

PRECALCULUS UNIT 2 CHEAT SHEET

Parent Functions



Transformations

Transformation	Function	Description	Transformation	Function	Description
Horizontal Shift	$f(x + a)$	Shift left a units.	Vertical Stretch/Compress	$a \cdot f(x), a > 1$	Stretch vertically by a factor of a .
	$f(x - a)$	Shift right a units.		$a \cdot f(x), 0 < a < 1$	Compress vertically by a factor of a .
Vertical Shift	$f(x) + a$	Shift up a units.	Horizontal Stretch/Compress	$f(ax), a > 1$	Compress horizontally by a factor of $\frac{1}{a}$.
	$f(x) - a$	Shift down a units.		$f(ax), 0 < a < 1$	Stretch horizontally by a factor of $\frac{1}{a}$.
Reflection	$-f(x)$	Reflect across x-axis .			
	$f(-x)$	Reflect across y-axis .			

Power Functions

- Any function that can be written in exponent form
- Includes negative exponents
- Includes rational exponents
- Includes radicals!

Negative Exponents

- Flip the base with negative exponent
 - This means move from numerator to denominator and vice versa
- Drop the negative
- Keep everything else the same and multiply throughout

$$x^{-2} = \frac{1}{x^2}$$

Rational Exponents

- Rational = Ratio = Fraction
- $x^{\frac{\text{numerator}}{\text{denominator}}} = \text{root} \sqrt[\text{denominator}]{x^{\text{numerator}}}$
- President is on the inside of the oval office, secret service is outside
(President Secret)

$$x^{\frac{3}{2}} = \sqrt[2]{x^3}$$

Radical Functions

Solving Radicals

- Isolate the radical (get everything away from the radical [leave everything alone under the radical])
- Get rid of the radical (square cancels square root, cube cancels cube root, etc...)
- Finish solving for your variable
- CHECK FOR EXTRANEOUS SOLUTIONS

Example 1: Solve

$$\begin{aligned} a) \quad \frac{2\sqrt{x+1}}{2} &= \frac{4}{2} \\ \sqrt{x+1} &= 2 \\ (\sqrt{x+1})^2 &= 2^2 \\ x+1 &= 4 \\ x &= 3 \end{aligned}$$

Step 1: Isolate the radical on one side.

Step 2: Raise each side to the same power to eliminate the root.

Step 3: Solve the resulting equation.

Step 4: Check your answers for extraneous solutions.

$$\begin{aligned} 2\sqrt{x+1} &= 4 \\ 2\sqrt{3+1} &= 4 \\ 2\sqrt{4} &= 4 \\ 2(2) &= 4 \quad \checkmark \end{aligned}$$

Polynomial Behavior

	Degree is Even	Degree is Odd
Leading Term is Positive		
Leading Term is Negative		

- If n is the highest degree of a polynomial (largest exponent)
- Possible Rational Zeros
 - \circ n
- Possible Turning Points
 - \circ $n - 1$

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SJ Ball



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Resources in Education ,2000-10 *Research in Education* ,1972 **El-Hi Textbooks in Print** ,1984

Government Reports Annual Index ,1994 **The Reserve Marine** ,1964 The Publishers' Trade List Annual ,1987

Strategies ,2004 *Research Awards Index* , **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1972 Anglicisms around the Globe Henrik Gottlieb,Anabella-Gloria Niculescu-Gorpin,Alicja Witalisz,Keisuke Imamura,Jaime W. Hunt,2025-11-14 This collection explores the global impact of English through fact based and contrastive analyses of different types of Anglicisms across a wide range of languages This volume showcases the ways in which contact induced language change operates across several different languages simultaneously This approach allows for an examination of similarities and differences in the adaptation processes of English models in languages with differing phonetic morphological syntactic and writing systems Drawing on data from the Global Anglicism Database GLAD the first multilingual repository featuring lexical and phraseological Anglicisms chapters look not only at visible Anglicisms such as augmented reality or easy listening which reflect their English origin but also at invisible Anglicisms cases in which English expressions are translated verbatim and cases when words in a recipient language change their meaning due to English influence This volume offers a multi layered perspective on how Anglicisms develop and blend into different languages and readers are presented with a nuanced understanding of contact induced language change This book will appeal to students and scholars interested in language contact World Englishes language policy and planning bilingualism and lexicography

Department of Defense Authorization for Appropriations for Fiscal Year 1991 United States. Congress. Senate. Committee on Armed Services,1990 *Brunner & Suddarth's Textbook of Medical-surgical Nursing* Suzanne C. O'Connell Smeltzer,Brenda G. Bare,Janice L. Hinkle,Kerry H. Cheever,2010 Preparing students for successful NCLEX results and strong futures as nurses in today s world Now in its 12th edition Brunner and Suddarth s Textbook of Medical Surgical Nursing is designed to assist nurses in preparing for their roles and responsibilities in the medical surgical setting and for success on the NCLEX In the latest edition the resource suite is complete with a robust set of premium and included ancillaries such as simulation support adaptive testing and a variety of digital resources helping prepare today s students for success This leading textbook focuses on physiological pathophysiological and psychosocial concepts as they relate to nursing care Brunner is known for its strong Nursing Process focus and its readability This edition retains these strengths and incorporates enhanced visual appeal and better portability for students Online Tutoring powered by Smarthinking Free online tutoring powered by Smarthinking gives students access to expert nursing and allied health science educators whose mission like yours is to achieve success Students can access live tutoring support critiques of written work and other valuable tools Los Angeles Times ,1975 **Subject Guide to Books in Print** ,1997 **Index to Educational Videotapes** National Information Center for Educational Media,1974 **Scientific and Technical Books in Print** ,1972

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