AP CALCULUS AB AND BC

Differentiation: Composite, Implicit, and Inverse Functions



Remember to go to AP Classroom to assign students the online Personal Progress Check for

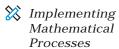
Differentiation: Composite, Implicit, and Inverse Functions

Differentiation: Composite, Implicit, and Inverse Functions

Activity	Topic	Sample Activity
1	3.1	Scavenger Hunt



SUGGESTED SKILL





Identify an appropriate mathematical rule or procedure based on the classification of a given H[SUHVVLRQ



AVAILA43.8383.6350 0 3.349 I -0.696 6.002 I 2/uEO (V)11A 8 Q0((CE0 (al 1 81.6186 705.1TT4.1661 120.8/m64l705.<</ActualText<FEFF00A7>E)10730 0 -0.696 u

TOPIC 3.2

, PSOLFLW 'L-HUHQWLDWI

LEARNING OBJECTIVE

FUN-3.D

Calculate derivatives of LPSOLFLWO\GH®QH

ESSENTIAL KNOWLEDGE

FUN-3.D.1

The chain rule is the basis for implicit

SUGGESTED SKILL



X - X V W L ® F D W L R Q

3.G

Confirm that solutions are DFFXUDWH DQG DSSURSULDWH

UNIT

TOPIC 3.4

'L¬HUHQWLDWLQJ Inverse Trigonometric **Functions**

SUGGESTED SKILL

Implementing Mathematical Processes

Apply appropriate mathematical rules or procedures, with and ZLWKRXW WHFKQRORJ\

Required Course Content

ENDURING UNDERSTANDING

5HFRJQL]LQJ RSSRUWXQLWLHV WR DSSO\ GHULYDWLYH UXOHV FDQ VLPSOLI\ G

LEARNING OBJECTIVE

FUN-3.E

Calculate derivatives of inverse and inverse WULJRQRPHWULF IX

ESSENTIAL KNOWLEDGE

FUN-3.E.2

7KH FKDLQ UXOH DSSOLHG ZLWK WKH GH®QLWLRQ of an inverse function, or the formula for the derivative of an inverse function, can EH XVHG WR ®QG WKH GHULYDWLYHV RI LQYHUVH WULJRQRPHWULF{IXQFWLRQV

TOPIC 3.6

Calculating Higher - Order Derivatives

LEARNING OBJECTIVE

FUN-3.F

Determine higher order