MATHS

BOOKS - KAPLAN INC MATHS (ENGLISH)

THE CALCULATOR

Example

1. If $x \neq \pm 1$, then $\dfrac{x+1}{x-1} - \dfrac{x-1}{x+1} =$

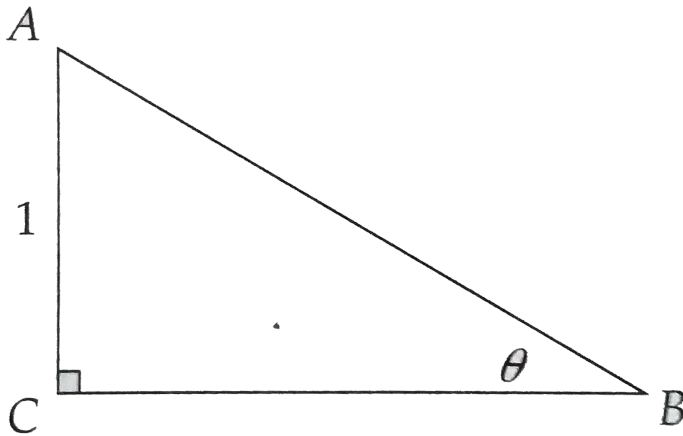A. $\dfrac{2x}{x-1}$

B. $\dfrac{2x}{x^2+1}$

C. $\dfrac{2x}{x^2-1}$

D. $\dfrac{4x}{x^2-1}$

Answer: D

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2. If $\sin\theta = 0.5$, what is the length of BC ?

A. 1.25

B. 1.41

C. 1.50

D. 1.73

Answer: D

3. If $0° < x < 90°$, and $\tan^2 x - \tan x = 6$, which of the following could be the value of x in degrees (rounded to the nearest degree) ?

A. 63

B. 67

C. 72

D. 77

Answer: C

4. Given the below, which function represents the values in the table ?

x	y
1	-1
3	5
5	11
7	17
9	23

A. $y = 2x - 3$

B. $x = 3y - 4$

C. $x = 2y - 3$

D. $y = 3x - 4$

Answer: D

5. Solve for x : $7^x = 18.52$

A. 2.65

B. 0.18

C. 21.9

D. 1.5

Answer: D

6. What is a possible solution to the system ?

$$y = x^2 + 3x + 2$$

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

    A. $(-1, 2)$

    B. $(0, 4)$

    C. $(0, 2)$

    D. $(1, 6)$

Answer: D

7. What is the edge length of a cube whose volume is $4,096cm^3$?

    A. 16 cm

    B. 1,365.33 cm

    C. 64 cm

    D. 455.11 cm

Answer: A

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