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2018 MATHMETH EXAM 2 2 SECTION A – Continued Question 1 Let  $f : \mathbb{R} \rightarrow \mathbb{R}$ ,  $f(x) = \cos(x)$ . The period of this function is A. 1 B. 2 C. 3 D. 4 E. 5 Question 2 The maximal domain of the function  $f$  is  $\mathbb{R} \setminus \{1\}$ . A possible rule for  $f$  is A.  $f(x) = x^2 - 1$  B.  $f(x) = x^2 + 1$  C.  $f(x) = x^2 - 2$  D.  $f(x) = x^2 + 2$  E.  $f(x) = x^2 - 3$  May 15th, 2024

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3 2018 MATHMETH EXAM 1 TURN OVER Question 1 (3 Marks) A. If  $y = x^2 + 3x - 4$ , find  $\frac{dy}{dx}$ . 1 Mark B. Let  $f(x) = \cos(x)$ . Evaluate  $f'(\pi)$ . 2 Marks Instructions Answer All Questions In The Spaces Provided. In All Questions Where A Numerical Answer Is Required, An Exact Value Must Be Given, Unless Otherwise Stated Jun 14th, 2024

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