1. If $A = (a_{ij})$ is the matrix $A = \begin{pmatrix} 1 & 4 & 0 \\ -2 & 3 & x \end{pmatrix}$ then a_{21} is equal to:

   (a) 1
   (b) 0
   (c) -2
   (d) x

7. Which of the following statements is true?

   (a) $\mathbb{R}^2$ represents the square of all 2×2 matrices
   (b) $\mathbb{R}^2$ represents all real numbers squared
   (c) $\mathbb{R}^2$ represents 2-space
   (d) none of the above

8. Which of the following statements is false?

   (a) $\sin(-\theta) = -\sin(\theta)$
   (b) $\cos(-\theta) = -\cos(\theta)$
   (c) $\tan(-\theta) = -\tan(\theta)$
   (d) none of the above

9. Which of the following statements is true?

   (a) $\sec(\theta) = \dfrac{1}{\cos(\theta)}$
   (b) $\sec(\theta) = \dfrac{1}{\sin(\theta)}$
   (c) $\sec(\theta) = \dfrac{1}{\tan(\theta)}$
   (d) none of the above

10. Which of the following statements is true?

    (a) $\cos(\theta - \pi) = \sin(\theta)$
    (b) $\sin(\theta - \pi) = -\cos(\theta)$
    (c) $\tan(\theta - \pi) = \tan(\theta)$
    (d) none of the above

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