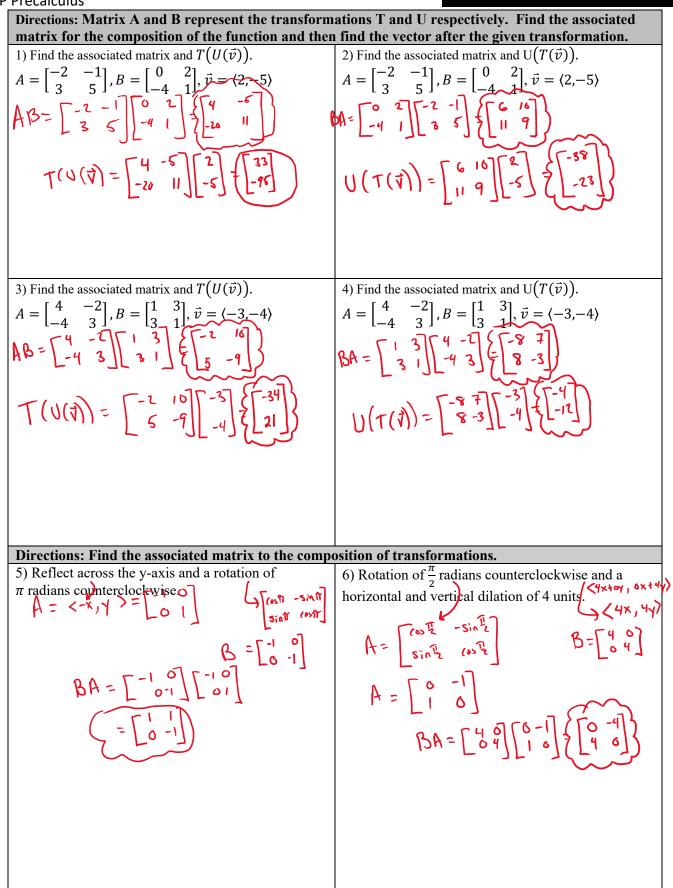
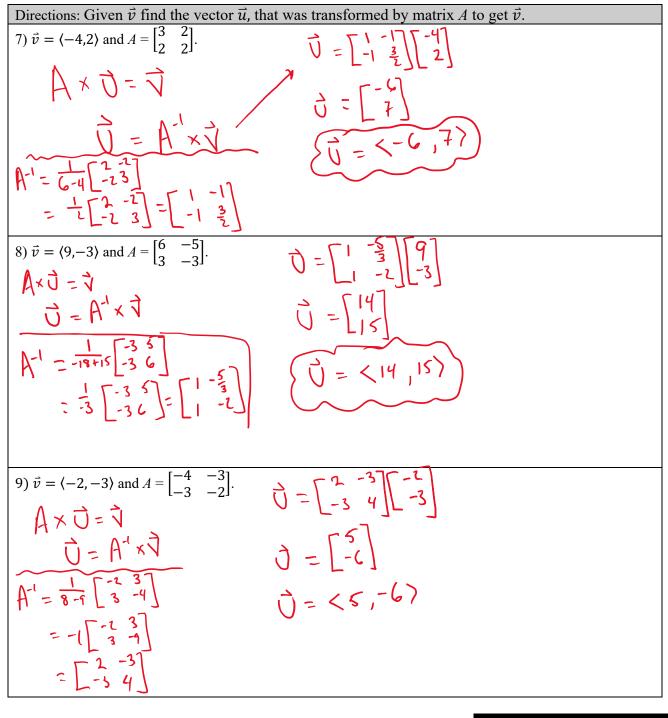
## 4.13B Matrices as Functions

## AP Precalculus

## **4.13B Practice Solutions**

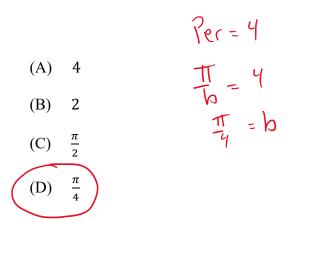


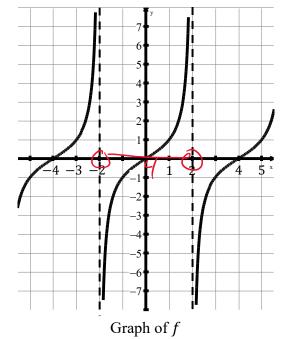


4.13B Matrices as Functions

## 4.13B Test Prep

10) (3.8) The graph of  $f(x) = \tan(bx)$ , where b is a constant, is shown in the xy-plane. What is the value of b?





11) (3.10) The function g is given by  $g(x) = 2\cos(x)$ . What are all solutions  $g(x) = \sqrt{3}$ ? (A)  $x = \frac{\pi}{6} + 2\pi k$  and  $\frac{5\pi}{6} + 2\pi k$ , where k is any integer (B)  $x = \pm \frac{\pi}{6} + 2\pi k$ , where k is any integer (C)  $x = \frac{\pi}{3} + 2\pi k$  and  $\frac{2\pi}{3} + 2\pi k$ , where k is any integer (D)  $x = \pm \frac{\pi}{3} + 2\pi k$ , where k is any integer

12) (3.13) The point A has polar coordinates  $\left(4, \frac{7\pi}{6}\right)$ . Which of the following also gives the location of point A in polar coordinates?

