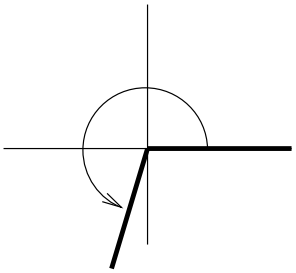
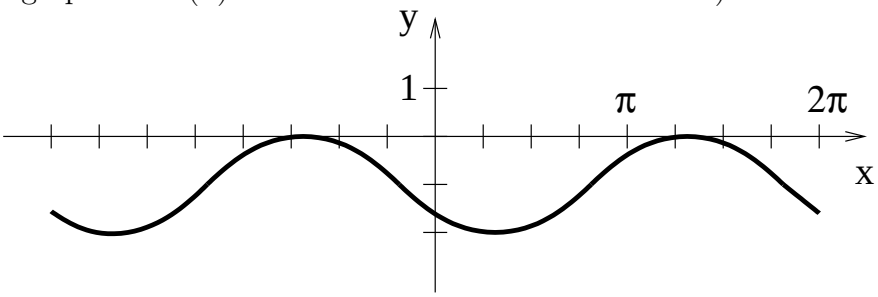
MATH 5

Practice Test 2 - Answers

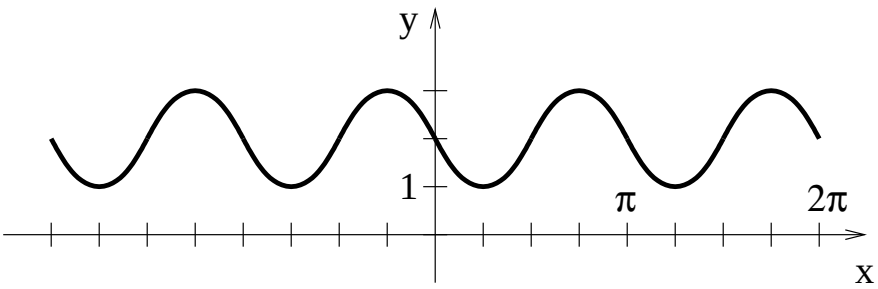
1. $\frac{25}{18}\pi$ radians



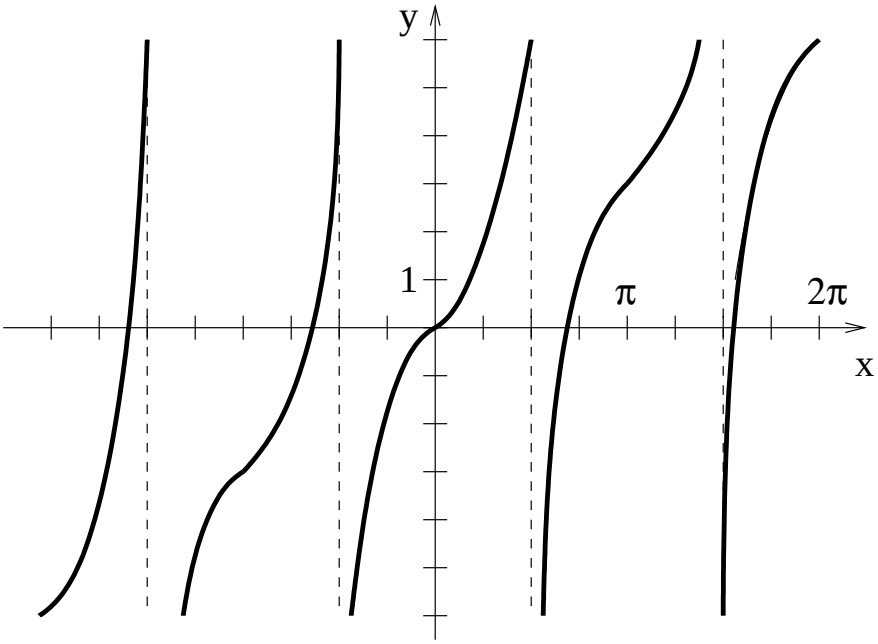
2. $\frac{\pi}{4}$
3. $-\frac{4}{3}$
4. $\frac{2\sqrt{6}}{5}$
5. $\frac{\sqrt{2}}{2}$
6. (shift the graph of $\cos(x)$ 1 unit down and 2 units to the left)



7. (compress the graph of $\sin(x)$ by a factor of 2, reflect about the x-axis, and shift 2 units up)



8. (add the y-coordinates of $y = x$ and $y = \tan(x)$)



Note: this is a rough graph. The computer program I am using doesn't allow me to draw this graph carefully enough... Use a calculator or graphsketch.com to obtain a better graph.

9. Find the exact value of $-\dfrac{2\pi}{3}$.

10. Find the exact value of 0.1π.

11. $\dfrac{\pi}{4}, \dfrac{3\pi}{4}, \dfrac{5\pi}{4}, \dfrac{7\pi}{4}$

12. 3

13. $\dfrac{\sqrt{6}-\sqrt{2}}{4}$

14. $\dfrac{4\sqrt{2}}{9}$