

Test 2 (Ch. 3 & 4) Pretest
Non-graphing Answers: #1 - 5 & 10 - 11
and Addendum for Sec. 4.3

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|------------|--------------------------|-------------------------|---------------------------|---------------------------|
| 1. | a) $\frac{1}{2}$ | b) 0 | c) 1 | d) Undefined |
| | e) -1 | f) -2 | g) $-\frac{1}{2}$ | h) $\sqrt{3}$ |
| | i) Undefined | j) 0 | k) $-\frac{\sqrt{3}}{2}$ | l) -1 |
| | m) $\frac{\sqrt{2}}{2}$ | n) $\sqrt{3}$ | o) $-\frac{2\sqrt{3}}{3}$ | p) $-\sqrt{2}$ |
| 2. | a) $\frac{2\sqrt{3}}{3}$ | b) $-\sqrt{3}$ | c) $\sqrt{3}$ | d) $\frac{1}{2}$ |
| | e) Undefined | f) -1 | g) 1 | h) $\frac{\sqrt{2}}{2}$ |
| | i) $\frac{\sqrt{3}}{3}$ | j) 2 | k) $\frac{\sqrt{3}}{2}$ | l) $-\frac{\sqrt{3}}{3}$ |
| | m) $\frac{1}{2}$ | n) 0 | o) -1 | p) Undefined |
| 3. | a) $\frac{10\pi}{9}$ | b) $\frac{\pi}{12}$ | c) $\frac{2\pi}{5}$ | d) $\frac{3\pi}{20}$ |
| | e) 140° | f) 27° | g) 66° | h) 195° |
| 4. | a) $q = 330^\circ$ | b) $q = 315^\circ$ | c) $q = 135^\circ$ | d) $q = 240^\circ$ |
| | e) $q = 330^\circ$ | f) $q = 120^\circ$ | | |
| 5. | a) $t = \frac{\pi}{4}$ | b) $t = \frac{7\pi}{4}$ | c) $t = \frac{4\pi}{3}$ | d) $t = 2\pi$ |
| | e) $t = \frac{4\pi}{3}$ | f) $t = \frac{7\pi}{6}$ | | |
| 10. | a) 3 | b) $\frac{3}{2}$ | c) $\frac{3\sqrt{2}}{2}$ | d) $-\frac{3\sqrt{3}}{2}$ |
| 11. | a) 2 | b) $-\sqrt{2}$ | c) $-\frac{2\sqrt{3}}{3}$ | d) 2 |

Addendum Answers:

1. $f(x) = 2\sin\left(\frac{3}{4}x\right)$

2. $f(x) = -6\cos\left(\frac{2}{3}x\right)$

3. $f(x) = 3\sin(4x)$

4. $f(x) = 4\sin\left(\frac{5}{2}x\right)$