

1. (1) i. S
 ii. G
 iii. A
 iv. L
 v. J
 vi. D
 vii. O
 viii. K
- (2) i. \$370.19
 ii. \$374.60
 iii. \$376.91
 iv. \$378.49
 v. \$379.30

(3)

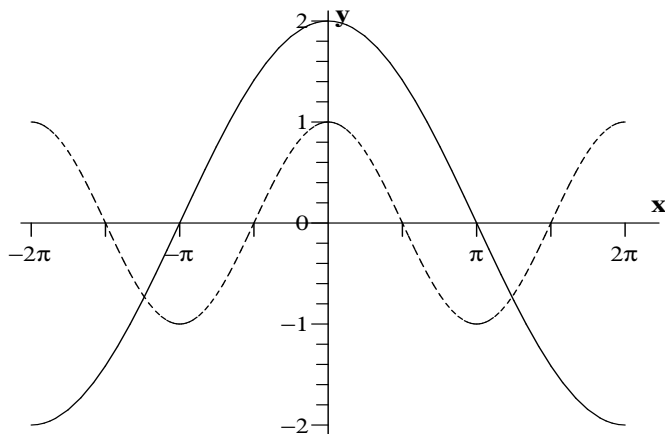
99° 18° 0° 414° 200° 405° 360° 3600°

(4)

π $-\frac{\pi}{3}$ $-\frac{\pi}{4}$ $\frac{11\pi}{10}$ 3π $-\frac{4\pi}{5}$ $-\frac{6\pi}{5}$ -11π

- (5) i. 10
 ii. 1
 iii. -3
 iv. 6
 v. -4
 vi. 1
 vii. -2
 viii. $\frac{1}{3}$

(6) The graph of $y = \cos x$ is dashed; the graph of $y_1 = 2 \cos \frac{x}{2}$ is solid.



2. (1) i. O

- ii. G
- iii. Q
- iv. A
- v. K
- vi. E
- vii. D
- viii. M

- (2) i. \$126.25
 ii. \$126.68
 iii. \$126.90
 iv. \$127.05
 v. \$127.12

(3)

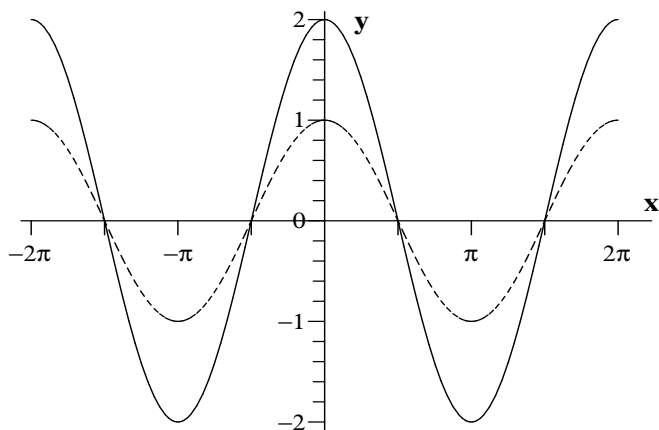
$$72^\circ \quad -252^\circ \quad -270^\circ \quad -360^\circ \quad -180^\circ \quad -192^\circ \quad -440^\circ \quad 40^\circ$$

(4)

$$-\frac{6\pi}{5} \quad \frac{5\pi}{3} \quad -\frac{2\pi}{3} \quad 3\pi \quad \pi \quad \frac{6\pi}{5} \quad \frac{7\pi}{3} \quad -\frac{2\pi}{9}$$

- (5) i. 18
 ii. 3
 iii. -1
 iv. 3
 v. -1
 vi. 8
 vii. -20
 viii. $\frac{1}{3}$

(6) The graph of $y = \cos x$ is dashed; the graph of $y_1 = 2 \cos x$ is solid.



3. (1) i. N
 ii. F
 iii. P
 iv. R
 v. S

- vi. T
- vii. I
- viii. L

- (2) i. \$615.45
 ii. \$621.19
 iii. \$624.20
 iv. \$626.27
 v. \$627.32

(3)

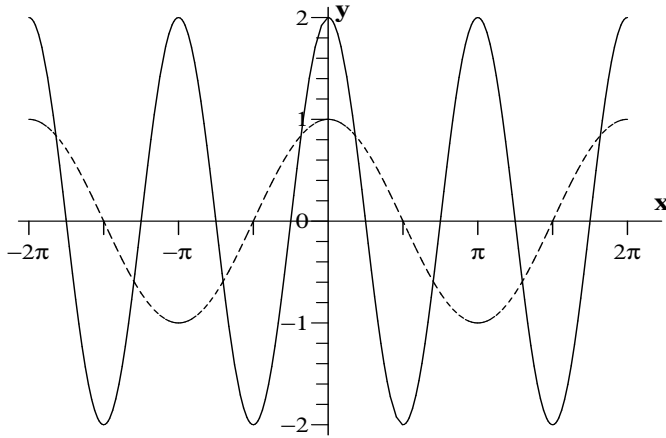
$$-720^\circ \quad 2880^\circ \quad -60^\circ \quad 0^\circ \quad -396^\circ \quad 0^\circ \quad 81^\circ \quad 96^\circ$$

(4)

$$\frac{11\pi}{5} \quad \frac{3\pi}{4} \quad \frac{8\pi}{9} \quad -\frac{8\pi}{9} \quad -\frac{4\pi}{3} \quad -10\pi \quad 4\pi \quad \frac{2\pi}{15}$$

- (5) i. 18
 ii. 2
 iii. -1
 iv. 3
 v. -5
 vi. -6
 vii. -18
 viii. $\frac{1}{2}$

(6) The graph of $y = \cos x$ is dashed; the graph of $y_1 = 2 \cos(2x)$ is solid.



4. (1) i. A
 ii. E
 iii. S
 iv. C
 v. B
 vi. T
 vii. M
 viii. G

- (2) i. \$564.63

- ii. \$568.84
- iii. \$571.05
- iv. \$572.56
- v. \$573.33

(3)

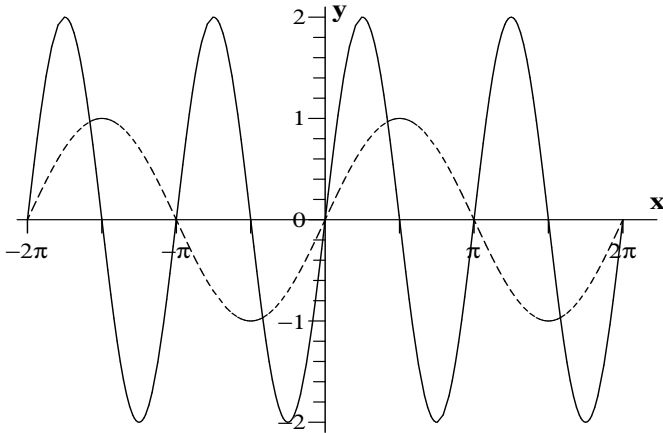
$$0^\circ \quad 252^\circ \quad -2520^\circ \quad -120^\circ \quad 27^\circ \quad 27^\circ \quad -360^\circ \quad 216^\circ$$

(4)

$$\frac{13\pi}{10} \quad 23\pi \quad -\frac{3\pi}{2} \quad -\frac{11\pi}{9} \quad -\frac{13\pi}{5} \quad \frac{16\pi}{15} \quad -\frac{7\pi}{15} \quad -\frac{11\pi}{5}$$

- (5)
- i. 15
 - ii. 3
 - iii. -3
 - iv. 3
 - v. -5
 - vi. 1
 - vii. -1
 - viii. $\frac{1}{3}$

(6) The graph of $y = \sin x$ is dashed; the graph of $y_1 = 2 \sin(2x)$ is solid.



5. (1)
- i. F
 - ii. Q
 - iii. N
 - iv. I
 - v. K
 - vi. E
 - vii. S
 - viii. L
- (2)
- i. \$218.00
 - ii. \$218.40
 - iii. \$218.62
 - iv. \$218.76
 - v. \$218.83

(3)

$$-180^\circ \quad -81^\circ \quad -450^\circ \quad 480^\circ \quad -216^\circ \quad -140^\circ \quad 300^\circ \quad -90^\circ$$

(4)

$$-\frac{\pi}{2} \quad -22\pi \quad -\frac{\pi}{2} \quad -\frac{\pi}{10} \quad 6\pi \quad -19\pi \quad -\frac{\pi}{2} \quad -\frac{13\pi}{9}$$

(5) i. 19

ii. 3

iii. -2

iv. 2

v. -5

vi. 3

vii. -12

viii. $\frac{1}{3}$

(6) The graph of $y = \sin x$ is dashed; the graph of $y_1 = \frac{1}{2} \sin x$ is solid.

