

CHAPTER 1, FORM A
TRIGONOMETRY

NAME _____
DATE _____

- Find the complement of an angle whose measure is 8° .
- Find the supplement of an angle whose measure is 36° .

- _____
- _____

Find the measure of each angle described below.

- Two supplementary angles whose measures are $(10x-12)^\circ$ and $(8x+30)^\circ$.
- Two vertical angles whose measures are $(4x-30)^\circ$ and $(5x-70)^\circ$.
- A wheel makes 186 revolutions per minute. How many revolutions does it make per second?

- _____
- _____
- _____

Convert the angle to decimal degrees and round to the nearest hundredth of a degree.

- $56^\circ 54' 8''$
- $101^\circ 31' 1''$
- $117^\circ 29' 50''$

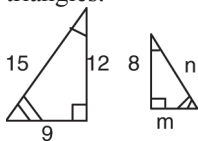
- _____
- _____
- _____

Convert the angle to degrees, minutes, and seconds.

- 79.02°
- 135.67°
- 59.18°
- Find the angle of smallest possible positive measure coterminal with -230° .
- Find the angle of smallest possible positive measure coterminal with -197° .
- One angle of a triangle has measure $23^\circ 40'$ and another angle has measure $41^\circ 19'$. Find the measure of the third angle.

- _____
- _____
- _____
- _____
- _____
- _____

- Find the values of m and n in the pair of similar triangles.



- m : _____
 n : _____

CHAPTER 1, FORM A, PAGE 2

16. A tree casts a shadow of 15 feet at the same time that a yardstick casts a shadow of 15 inches. How tall is the tree?

Find the values of the indicated trigonometric functions for the angle θ in standard position having the given point on its terminal side.

17. $(-4, 3)$

18. $(-4, 3)$

Evaluate each of the following.

19. $\tan 180^\circ + \cos 180^\circ - 4 \sin 270^\circ$

20. $(\csc 90^\circ)(\sin 180^\circ) + \sec^2 180^\circ$

21. $\sin^2 49^\circ + \cos^2 49^\circ$

22. Find $\tan \alpha$ and $\sec \alpha$, given the following:

$\sin \alpha = \frac{3}{5}$ and $\cos \alpha < 0$.

Decide whether each statement is *possible* or *impossible*.

23. $\cos A = \frac{1}{\sqrt{2}}$

24. $\cot \theta = .459$

25. If θ is a quadrantal angle, then what are the possible values of $\cos \theta$?

16. _____

17. $\sin \theta$: _____
 $\cos \theta$: _____
 $\tan \theta$: _____

18. $\csc \theta$: _____
 $\sec \theta$: _____
 $\cot \theta$: _____

19. _____

20. _____

21. _____

22. $\tan \alpha$: _____

$\sec \alpha$: _____

23. _____

24. _____

25. _____

**CHAPTER 1, FORM B
TRIGONOMETRY**

NAME _____
DATE _____

1. Find the complement of an angle whose measure is 60° .
2. Find the supplement of an angle whose measure is 114° .

1. _____
2. _____

Find the measure of each angle described below.

3. Two complementary angles whose measures are $(8x+7)^\circ$ and $(6x+13)^\circ$.
4. Two vertical angles whose measures are $(5x+2)^\circ$ and $(6x-3)^\circ$.
5. A wheel makes 192 revolutions per minute. How many revolutions does it make per second?

3. _____
4. _____
5. _____

Convert the angle to decimal degrees and round to the nearest hundredth of a degree.

6. $31^\circ 8' 17''$
7. $132^\circ 58' 22''$
8. $310^\circ 28' 24''$

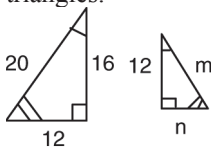
6. _____
7. _____
8. _____

Convert the angle to degrees, minutes, and seconds.

9. 209.64°
10. 216.27°
11. 59.09°
12. Find the angle of smallest possible positive measure coterminal with 435° .
13. Find the angle of smallest possible positive measure coterminal with -98° .
14. One angle of a triangle has measure $36^\circ 30'$, and another angle has measure $61^\circ 20'$. Find the measure of the third angle.

9. _____
10. _____
11. _____
12. _____
13. _____
14. _____

15. Find the values of m and n in the pair of similar triangles.



15. m : _____
 n : _____

CHAPTER 1, FORM B, PAGE 2

16. A triangular floor has sides 33 ft, 42 ft, and 61 ft long. A scale drawing is made in which the smallest side is 3 in. long. What are the lengths of the other two sides in the drawing, to the nearest hundredth of an in.?

Find the values of the indicated trigonometric functions for the angle θ in standard position having the given point on its terminal side.

17. $(6, -8)$

18. $(-3, -5)$

Evaluate each of the following.

19. $3 \sin 90^\circ + 2 \cos 180^\circ + 5 \tan 0^\circ$

20. $\csc^2 90^\circ + (\sin 90^\circ)(\cos 180^\circ)$

21. $\sin^2 57^\circ + \cos^2 57^\circ$

22. Find $\sin \alpha$ and $\cos \alpha$, given the following:
 $\tan \alpha = \frac{2}{5}$ and $\sec \alpha < 0$.

Decide whether each statement is *possible* or *impossible*.

23. $\sin B = \frac{\sqrt{5}}{2}$

24. $\csc \theta = -7.249$

25. If θ is a quadrantal angle, then what are the possible values of $\sin \theta$?

16. _____

17. $\sin \theta$: _____
 $\cos \theta$: _____
 $\tan \theta$: _____

18. $\csc \theta$: _____
 $\sec \theta$: _____
 $\cot \theta$: _____

19. _____

20. _____

21. _____

22. $\sin \alpha$: _____
 $\cos \alpha$: _____

23. _____

24. _____

25. _____

**CHAPTER 1, FORM C
TRIGONOMETRY**

NAME _____
DATE _____

1. Find the complement of an angle whose measure is 18° .
2. Find the supplement of an angle whose measure is 60° .

1. _____
2. _____

Find the measure of each angle described below.

3. Two supplementary angles whose measures are $(5x+100)^\circ$ and $(13x+8)^\circ$.
4. Two angles that form a right angle whose measures are $(10x - 14)^\circ$ and $3x^\circ$
5. A wheel makes 216 revolutions per minute. How many revolutions does it make per second?

3. _____
4. _____
5. _____

Convert the angle to decimal degrees and round to the nearest hundredth of a degree.

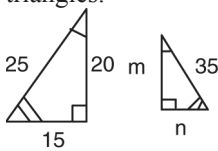
6. $20^\circ 54'$
7. $38^\circ 42' 1''$
8. $5^\circ 34' 16''$

6. _____
7. _____
8. _____

Convert the angle to degrees, minutes, and seconds.

9. 89.04°
10. 92.45°
11. 178.60°
12. Find the angle of smallest possible positive measure coterminal with -415° .
13. Find the angle of smallest possible positive measure coterminal with -203° .
14. One angle of a triangle has measure $38^\circ 18'$, and another angle has measure $62^\circ 14'$. Find the measure of the third angle.
15. Find the values of m and n in the pair of similar triangles.

9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. m : _____
 n : _____



CHAPTER 1, FORM C, PAGE 2

16. A 90-foot-tall building casts a shadow of 22 ft at the same time that a tree casts a shadow of 8 ft. To the nearest tenth of a foot, how tall is the tree?

16. _____

Find the values of the indicated trigonometric functions for the angle θ in standard position having the given point on its terminal side.

17. (6, 3)

17. $\sin \theta$: _____
 $\cos \theta$: _____
 $\tan \theta$: _____

18. (-2, 4)

18. $\csc \theta$: _____
 $\sec \theta$: _____
 $\cot \theta$: _____

Evaluate each of the following.

19. $\sec^2 180^\circ - \frac{1}{2} \sin 90^\circ + 4 \tan 360^\circ$

19. _____

20. $8 \sin 180^\circ - 3 \csc 270^\circ + 4 \cos 180^\circ$

20. _____

21. $5 \cos^2 18^\circ + 5 \sin^2 18^\circ$

21. _____

22. Find $\sin \alpha$ and $\cos \alpha$, given the following:
 $\tan \alpha = \frac{7}{3}$ and $\sec \alpha < 0$.

22. $\sin \alpha$: _____
 $\cos \alpha$: _____

Decide whether each statement is *possible* or *impossible*.

23. $\cos A + \sin B = 1.1$

23. _____

24. $\cot \theta = -17.05$

24. _____

25. If θ is a quadrantal angle, then what are the possible values of $\tan \theta$?

25. _____

**CHAPTER 1, FORM D
TRIGONOMETRY**

NAME _____
DATE _____

1. Find the complement of an angle whose measure is 89° .
2. Find the supplement of an angle whose measure is 18° .

1. _____
2. _____

Find the measure of each angle described below.

3. Two complementary angles whose measures are $(9x - 3)^\circ$ and $(5x - 5)^\circ$.
4. Two vertical angles whose measures are $(3x + 20)^\circ$ and $(5x + 12)^\circ$.
5. A wheel makes 426 revolutions per minute. How many revolutions does it make per second?

3. _____
4. _____
5. _____

Convert the angle to decimal degrees and round to the nearest hundredth of a degree.

6. $34^\circ 51' 35''$
7. $165^\circ 51' 9''$
8. $184^\circ 38' 39''$

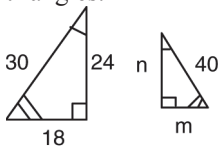
6. _____
7. _____
8. _____

Convert the angle to degrees, minutes, and seconds.

9. 122.69°
10. 105.14°
11. 33.91°
12. Find the angle of smallest possible positive measure coterminal with 699° .
13. Find the angle of smallest possible positive measure coterminal with 735° .
14. One angle of a right triangle has measure $43^\circ 39'$. Find the measure of the other acute angle.

9. _____
10. _____
11. _____
12. _____
13. _____
14. _____

15. Find the values of m and n in the pair of similar triangles.



15. m : _____
 n : _____

CHAPTER 1, FORM D, PAGE 2

16. A flag pole casts a shadow of 8 ft at the same time that a yardstick casts a shadow of 6 in. How tall is the pole?

16. _____

Find the values of the indicated trigonometric functions for the angle θ in standard position having the given point on its terminal side.

17. $(-8, 15)$

17. $\sin \theta$: _____
 $\cos \theta$: _____
 $\tan \theta$: _____

18. $(5, 3)$

18. $\csc \theta$: _____
 $\sec \theta$: _____
 $\cot \theta$: _____

Evaluate each of the following.

19. $\sin^2 270^\circ + 3 \tan 180^\circ - 5 \cos 180^\circ$

19. _____

20. $\sec^2 180^\circ - 4(\sin 90^\circ)(\cos 180^\circ)$

20. _____

21. $.5 \sin^2 52^\circ + .5 \cos^2 52^\circ$

21. _____

22. Find $\tan \alpha$ and $\sec \alpha$, given the following:

$\cos \alpha = \frac{3}{5}$ and $\sin \alpha > 0$.

22. $\tan \alpha$: _____
 $\sec \alpha$: _____

Decide whether each statement is *possible* or *impossible*.

23. $\sin^2 C = 0.98$

23. _____

24. $\sec \theta = -4.5$

24. _____

25. If θ is a quadrantal angle, then what are the possible values of $\csc \theta$.

25. _____

**CHAPTER 1, FORM E
TRIGONOMETRY**

NAME _____
DATE _____

Choose the best answer.

1. Find the complement of an angle whose measure is 56° . 1. _____
a. 34° b. 124°
c. 144° d. 304°

2. Find the supplement of an angle whose measure is 53° . 2. _____
a. 37° b. 47°
c. 127° d. 143°

For 3-4, find the measure of each angle described.

3. Two angles that form a right angle whose measures are $(10x+18)^\circ$ and $(5x+12)^\circ$. 3. _____
a. $48^\circ, 42^\circ$ b. $148^\circ, 32^\circ$
c. $58^\circ, 32^\circ$ d. $86^\circ, 4^\circ$

4. Two vertical angles whose measures are $(6x-20)^\circ$ and $(3x+40)^\circ$. 4. _____
a. $135^\circ, 45^\circ$ b. $20^\circ, 20^\circ$
c. $45^\circ, 45^\circ$ d. $100^\circ, 100^\circ$

5. A wheel makes 1314 revolutions per minute. How many revolutions does it make per second? 5. _____
a. 8.7 b. 12.1
c. 21.9 d. 26.8

Convert the angle to decimal degrees and round to the nearest hundredth of a degree.

6. $56^\circ 13' 52''$ 6. _____
a. 56.23° b. 66.23°
c. 76.23° d. 86.23°

7. $153^\circ 31' 18''$ 7. _____
a. 125.43° b. 153.52°
c. 167.52° d. 189.53°

CHAPTER 1, FORM E, PAGE 2

8. $376^\circ 23' 4''$ 8. _____
 a. 376.38° b. 16.38°
 c. 376.42° d. 106.38°

9. Give an expression that generates all angles coterminal with 270° . Let n represent an integer. 9. _____
 a. $90^\circ + n \cdot 360^\circ$ b. $270^\circ + n \cdot 360^\circ$
 c. $90^\circ + n \cdot 180^\circ$ d. $270^\circ + n \cdot 180^\circ$

10. Find the measures of two supplementary angles with measures $(3z - 10)^\circ$ and $(2z)^\circ$. 10. _____
 a. $94^\circ, 86^\circ$ b. $50^\circ, 40^\circ$
 c. $104^\circ, 76^\circ$ d. $108^\circ, 72^\circ$

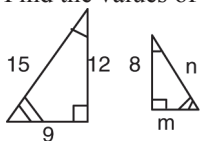
11. Convert 161.40° to degrees, minutes and seconds. 11. _____
 a. $29^\circ 34' 10''$ b. $161^\circ 24' 00''$
 c. $29^\circ 24' 00''$ d. $161^\circ 34' 10''$

12. Find the angle of smallest possible positive measure coterminal with -210° . 12. _____
 a. 30° b. 120°
 c. 150° d. 60°

13. Convert 70.12° to degrees, minutes and seconds. 13. _____
 a. $70^\circ 07' 12''$ b. $70^\circ 06' 50''$
 c. $70^\circ 12' 07''$ d. $70^\circ 12' 36''$

14. One angle of a triangle has measure $40^\circ 20'$ and another angle has measure $20^\circ 35'$. Find the measure of the third angle. 14. _____
 a. $29^\circ 05'$ b. $119^\circ 05'$
 c. $113^\circ 15'$ d. $98^\circ 55'$

15. Find the values of m and n in the pair of similar triangles. 15. _____



- a. $m = 3, n = 4$ b. $m = 6, n = 10$
 c. $m = 5, n = 4$ d. $m = 5, n = 8$

16. A water tower casts a shadow of 36 ft at the same time that a 12-in. ruler casts a shadow of 3 in. How tall is the water tower? 16. _____
 a. 144 ft b. 96 ft
 c. 248 ft d. 384 ft

CHAPTER 1, FORM E, PAGE 3

17. Find the values of $\sin \theta$, $\cos \theta$, and $\tan \theta$ for the angle θ in standard position having $(-4, -3)$ on its terminal side.

- a. $\sin \theta = -\frac{3}{5}$, $\cos \theta = -\frac{4}{5}$, $\tan \theta = \frac{3}{4}$
- b. $\sin \theta = \frac{4}{5}$, $\cos \theta = -\frac{3}{5}$, $\tan \theta = \frac{4}{3}$
- c. $\sin \theta = -\frac{3}{5}$, $\cos \theta = \frac{4}{5}$, $\tan \theta = \frac{3}{4}$
- d. $\sin \theta = \frac{4}{5}$, $\cos \theta = \frac{3}{5}$, $\tan \theta = -\frac{3}{4}$

17. _____

18. Find the values of $\csc \theta$, $\sec \theta$, and $\cot \theta$ for the angle θ in the standard position having $(4, -2)$ on its terminal side.

- a. $\csc \theta = -\frac{2}{\sqrt{5}}$, $\sec \theta = \frac{2}{\sqrt{5}}$, $\cot \theta = -\frac{1}{2}$
- b. $\csc \theta = -2\sqrt{5}$, $\sec \theta = \sqrt{5}$, $\cot \theta = \frac{1}{2}$
- c. $\csc \theta = \sqrt{5}$, $\sec \theta = \frac{2}{\sqrt{5}}$, $\cot \theta = -2$
- d. $\csc \theta = -\sqrt{5}$, $\sec \theta = \frac{\sqrt{5}}{2}$, $\cot \theta = -2$

18. _____

Evaluate each of the following.

19. $4 \sin 90^\circ + 2 \cos 270^\circ + 3 \tan 0^\circ$

- a. 6
- b. 4
- c. -4
- d. -3

19. _____

20. $\csc^2 90^\circ + (\sin 270^\circ)(\tan 180^\circ)$

- a. 0
- b. 2
- c. 1
- d. -1

20. _____

21. $\sin^2 47^\circ + \cos^2 47^\circ$

- a. 1
- b. 1.41
- c. -1
- d. 0

21. _____

CHAPTER 1, FORM E, PAGE 4

22. Find $\sin \alpha$ and $\cos \alpha$, given the following:

$\tan \alpha = \frac{3}{5}$ and $\sec \alpha < 0$.

a. $\sin \alpha = -\frac{3\sqrt{34}}{34}$, $\cos \alpha = -\frac{5\sqrt{34}}{34}$

b. $\sin \alpha = \frac{3\sqrt{34}}{34}$, $\cos \alpha = \frac{5\sqrt{34}}{34}$

c. $\sin \alpha = -\frac{3\sqrt{34}}{34}$, $\cos \alpha = \frac{5\sqrt{34}}{34}$

d. $\sin \alpha = \frac{3\sqrt{34}}{34}$, $\cos \alpha = -\frac{5\sqrt{34}}{34}$

22. _____

23. Determine which of the following is possible.

a. $\sec A = -\frac{3}{5}$ b. $\csc B = \frac{1}{2}$

c. $\cos C = \frac{1}{\sqrt{3}}$ d. $\sin D = \frac{\sqrt{10}}{3}$

23. _____

24. Determine which of the following is *not* possible.

a. $\cot 90^\circ$ b. $\sin 45^\circ$
c. $\tan 90^\circ$ d. $\sec 180^\circ$

24. _____

25. List the possible values of $\sin \theta$ if θ is a quadrantal angle.

a. $-1, -2, 1, 2$ b. 0
c. $-1, 1$ d. $-1, 0, 1$

25. _____

**CHAPTER 1, FORM F
TRIGONOMETRY**

NAME _____
DATE _____

Choose the best answer.

1. Find the complement of an angle whose measure is 12° . 1. _____
a. 60° b. 78°
c. 90° d. 168°

2. Find the supplement of an angle whose measure is 24° . 2. _____
a. 66° b. 90°
c. 156° d. 336°

For 3-4, find the measure of each angle described.

3. Two angles that form a right angle whose measures are $(7x-19)^\circ$ and $(9x-3)^\circ$. 3. _____
a. $60^\circ, 30^\circ$ b. $83^\circ, 7^\circ$
c. $120^\circ, 60^\circ$ d. $46^\circ, 44^\circ$

4. Two vertical angles whose measures are $(5x+9)^\circ$ and $(2x+21)^\circ$. 4. _____
a. $4^\circ, 4^\circ$ b. $4^\circ, 86^\circ$
c. $29^\circ, 29^\circ$ d. $50^\circ, 50^\circ$

5. A wheel makes 726 revolutions per minute. How many revolutions does it make per second? 5. _____
a. 4.2 b. 12.1
c. 16.8 d. 24.6

Convert the angle to decimal degrees and round to the nearest hundredth of a degree.

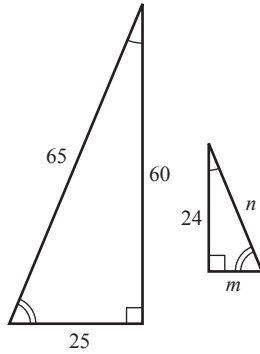
6. $15^\circ 24' 18''$ 6. _____
a. 15.31° b. 15.45°
c. 15.70° d. 15.41°

CHAPTER 1, FORM F, PAGE 2

7. $25^{\circ} 25' 37''$ 7. _____
- a. 25.43° b. 27.90°
c. 31.72° d. 43.67°
8. $123^{\circ} 35' 48''$ 8. _____
- a. 123.60° b. 47.33°
c. 132.67° d. 123.33°
9. Give an expression that generates all angles coterminal with 45° . Let n represent an integer. 9. _____
- a. $45^{\circ} + n \cdot 360^{\circ}$ b. $90^{\circ} + n \cdot 360^{\circ}$
c. $45^{\circ} + n \cdot 180^{\circ}$ d. $90^{\circ} + n \cdot 180^{\circ}$
10. Find the measures of two complementary angles with measures $(10w + 15)^{\circ}$ and $(5w)^{\circ}$. 10. _____
- a. $125^{\circ}, 55^{\circ}$ b. $65^{\circ}, 25^{\circ}$
c. $15^{\circ}, 85^{\circ}$ d. $20^{\circ}, 70^{\circ}$
11. Convert 15.36° to degrees, minutes, and seconds. 11. _____
- a. $15^{\circ} 20' 26''$ b. $15^{\circ} 36' 00''$
c. $15^{\circ} 12' 30''$ d. $15^{\circ} 21' 36''$
12. Convert 275.10° to degrees, minutes, and seconds. 12. _____
- a. $275^{\circ} 06' 00''$ b. $275^{\circ} 02' 06''$
c. $75^{\circ} 06' 02''$ d. $270^{\circ} 02' 06''$
13. Find the angle of smallest possible positive measure coterminal with -140° . 13. _____
- a. 40° b. 220°
c. 80° d. 260°
14. One angle of a triangle has measure $21^{\circ} 37'$ and another angle has measure $38^{\circ} 42'$. Find the measure of the third angle. 14. _____
- a. $119^{\circ} 41'$ b. $120^{\circ} 41'$
c. $113^{\circ} 21'$ d. $106^{\circ} 59'$

CHAPTER 1, FORM F, PAGE 3

15. Find the values of m and n in the pair of similar triangles.



- a. $m = 12, n = 12$ b. $m = 9, n = 36$
 c. $m = 10, n = 26$ d. $m = 27, n = 15$

15. _____

16. A radio antenna casts a shadow of 90 ft at the same time that a yard-long stick casts a shadow of 27 in. How tall is the radio antenna?

- a. 108 ft b. 120 ft
 c. 136 ft d. 240 ft

16. _____

17. Find the values of $\sin \theta$, $\cos \theta$, and $\tan \theta$ for the angle θ in the standard position having $(-5, 12)$ on its terminal side.

- a. $\sin \theta = \frac{12}{13}, \cos \theta = -\frac{5}{13}, \tan \theta = -\frac{12}{5}$
 b. $\sin \theta = -\frac{12}{13}, \cos \theta = -\frac{5}{13}, \tan \theta = \frac{5}{12}$
 c. $\sin \theta = \frac{5}{13}, \cos \theta = -\frac{12}{13}, \tan \theta = -\frac{5}{12}$
 d. $\sin \theta = -\frac{12}{13}, \cos \theta = -\frac{5}{13}, \tan \theta = -\frac{5}{12}$

17. _____

18. Find the values of $\csc \theta$, $\sec \theta$, and $\cot \theta$ for the angle θ in the standard position having $(3, -6)$ on its terminal side.

- a. $\csc \theta = \frac{\sqrt{5}}{2}, \sec \theta = \frac{\sqrt{5}}{2}, \cot \theta = \frac{1}{2}$
 b. $\csc \theta = -2\sqrt{5}, \sec \theta = \sqrt{5}, \cot \theta = \frac{1}{2}$
 c. $\csc \theta = \frac{2}{\sqrt{5}}, \sec \theta = \frac{1}{\sqrt{5}}, \cot \theta = -2$
 d. $\csc \theta = -\frac{\sqrt{5}}{2}, \sec \theta = \sqrt{5}, \cot \theta = -\frac{1}{2}$

18. _____

CHAPTER 1, FORM F, PAGE 4

Evaluate each of the following.

19. $3 \sin 180^\circ + 2 \cos 90^\circ - 6 \tan 0^\circ$ 19. _____
a. 1 b. -3
c. 2 d. 0

20. $4 \cot^2 90^\circ + (\sec 180^\circ)(2 \cos 180^\circ)$ 20. _____
a. 4 b. 2
c. 0 d. -2

21. $3 \sec 180^\circ - 5 \tan 360^\circ$ 21. _____
a. 3 b. 1
c. 0 d. -3

22. Find $\sin \beta$ and $\cos \beta$, given the following: 22. _____

$\tan \beta = -\frac{2}{5}$ and $\csc \beta > 0$.

a. $\sin \beta = \frac{2\sqrt{29}}{29}$, $\cos \beta = -\frac{5\sqrt{29}}{29}$

b. $\sin \beta = -\frac{5\sqrt{29}}{29}$, $\cos \beta = -\frac{2\sqrt{29}}{29}$

c. $\sin \beta = -\frac{2\sqrt{29}}{29}$, $\cos \beta = -\frac{5\sqrt{29}}{29}$

d. $\sin \beta = \frac{5\sqrt{29}}{29}$, $\cos \beta = -\frac{2\sqrt{29}}{29}$

23. Determine which of the following is possible. 23. _____

a. $\cos \alpha = -\frac{5}{4}$ b. $\sin \beta = -\frac{1}{2}$

c. $\tan 270^\circ$ d. $\csc \theta = \frac{1}{3}$

24. Determine which of the following is *not* possible. 24. _____

a. $\csc 270^\circ$ b. $\sin 135^\circ$
c. $\cos 210^\circ$ d. $\cot 180^\circ$

CHAPTER 1, FORM F, PAGE 5

25. List the possible values of $\cos \theta$ if θ is a quadrantal angle.
- a. $-1, 0, 1$
 - b. $-2, -1, 1, 2$
 - c. 0
 - d. $-1, 1$

25. _____