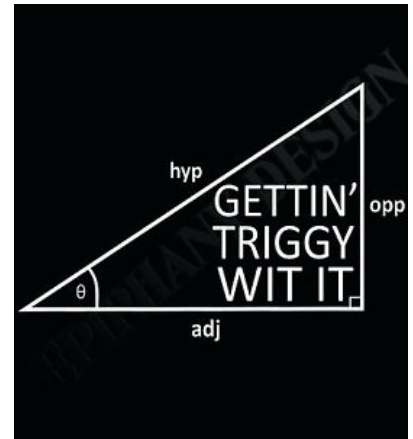


Name _____

FOM 3 Unit 7: Trig

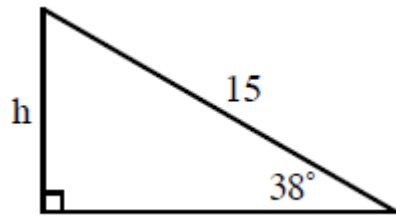


Monday	Tuesday	Wednesday	Thursday	Friday
November 26 <ul style="list-style-type: none">• Right triangle trig HW: worksheet 7.1	November 27 <ul style="list-style-type: none">• Angles in degrees HW: worksheet 7.2	November 28 <ul style="list-style-type: none">• Angles in radians HW: worksheet 7.3	November 29 <ul style="list-style-type: none">• Exact values of sine, cosine, and tangent HW: worksheet 7.4	November 30 <ul style="list-style-type: none">• QUIZ!!• Graphs of sine and cosine HW: worksheet 7.5
December 3 <ul style="list-style-type: none">• Equations of sine and cosine HW: worksheet 7.6	December 4 <ul style="list-style-type: none">• Review HW: finish review	December 5 <ul style="list-style-type: none">• TEST!!		

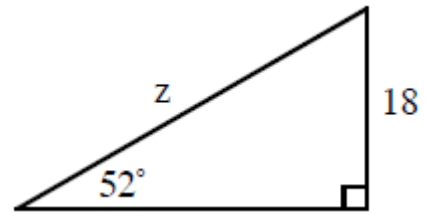
7.1 - Right Triangle Trig

Solve for the variable.

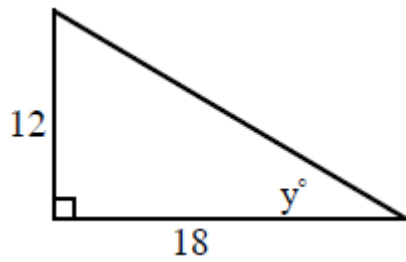
1.



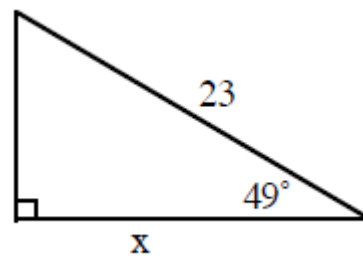
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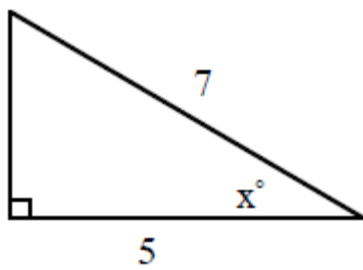
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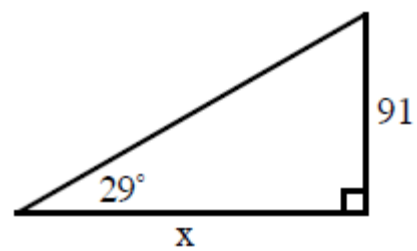
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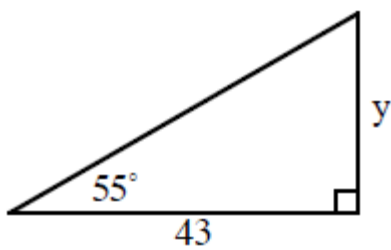
5.



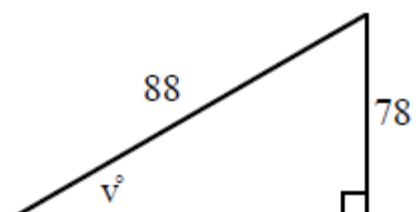
6.



7.



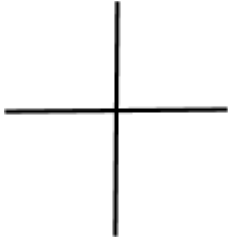
8.



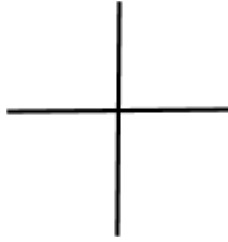
7.2 - Angles (Degrees)

Draw each angle in standard position.

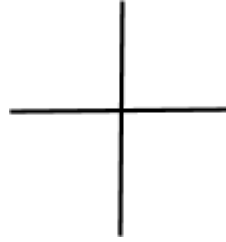
1. 120°



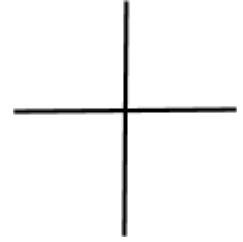
2. -240°



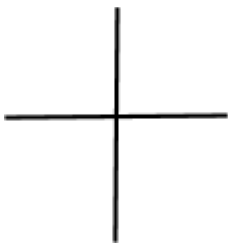
3. 550°



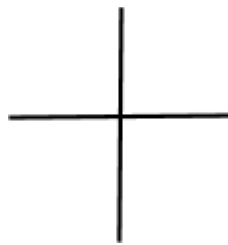
4. -270°



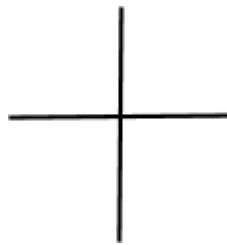
5. 300°



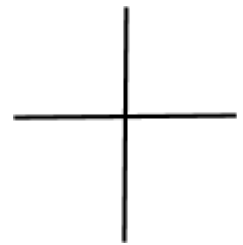
6. 40°



7. -400°



8. -100°



Find one positive and one negative coterminal angle that corresponds to the given angle.

9. 415°

10. -160°

11. -440°

12. 55°

Determine an angle between 0° and 360° that is coterminal to the given angle.

13. 665°

14. -70°

15. -640°

16. 1190°

7.3 - Angles (Radians)

Convert angle in degrees to radians.

1. 18°

2. 150°

3. 330°

4. -270°

Convert each angle in radians to degrees.

5. $\frac{\pi}{9}$

6. $\frac{3\pi}{4}$

7. $\frac{11\pi}{6}$

8. $-\frac{25\pi}{18}$

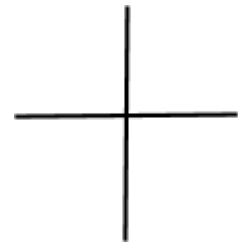
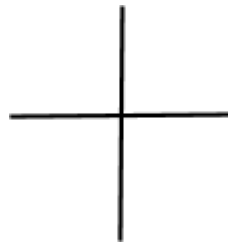
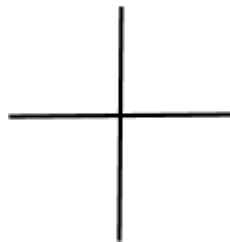
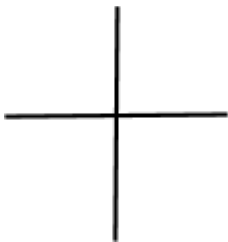
Draw each angle in standard position.

9. $\frac{5\pi}{6}$

10. $-\frac{\pi}{4}$

11. $\frac{10\pi}{3}$

12. $-\frac{7\pi}{6}$

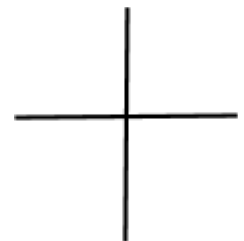
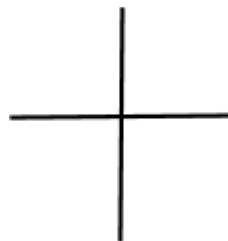
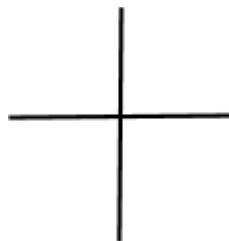
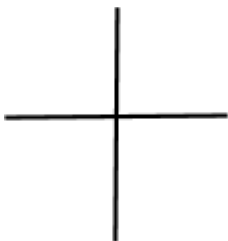


13. π

14. $-\frac{2\pi}{3}$

15. $-\frac{7\pi}{3}$

16. $\frac{11\pi}{6}$



7.4 - Exact Values of Sine, Cosine, and Tangent

Use the unit circle to determine the exact value of each trig expression.

1. $\sin 45^\circ$

2. $\cos \frac{3\pi}{4}$

3. $\sin \frac{8\pi}{3}$

4. $\tan 60^\circ$

5. $\sin -210^\circ$

6. $\tan \pi$

7. $\cos 570^\circ$

8. $\cos 0$

9. $\sin 270^\circ$

10. $\sin -3\pi$

11. $\tan 495^\circ$

12. $\cos -90^\circ$

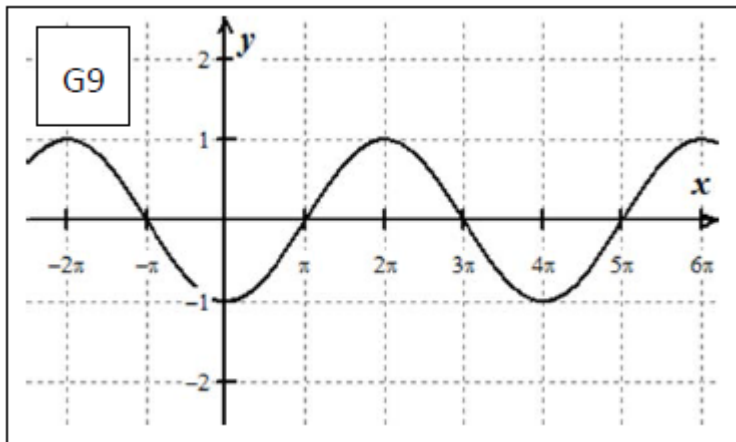
13. $\tan -\frac{\pi}{6}$

14. $\sin \frac{7\pi}{6}$

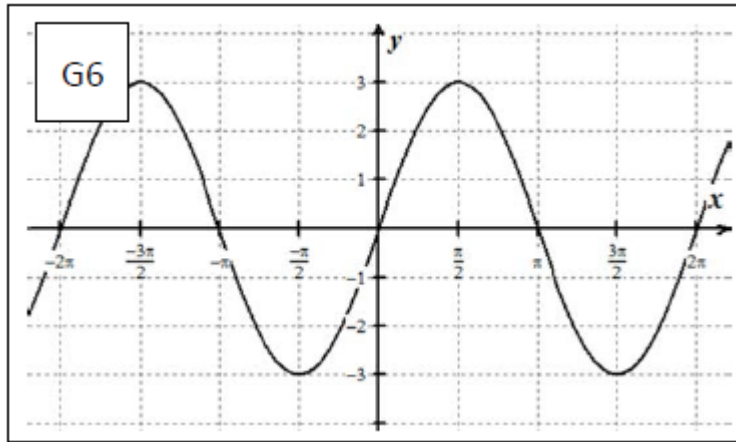
15. $\sin -855^\circ$

7.5 - Graphs of Sine and Cosine

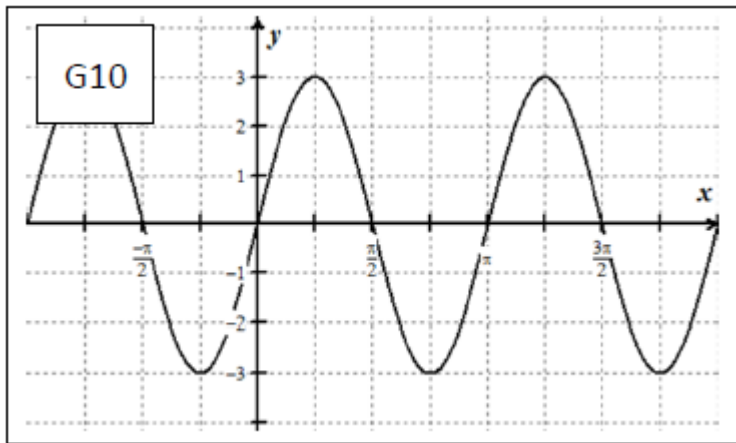
Determine the amplitude and period for each graph.



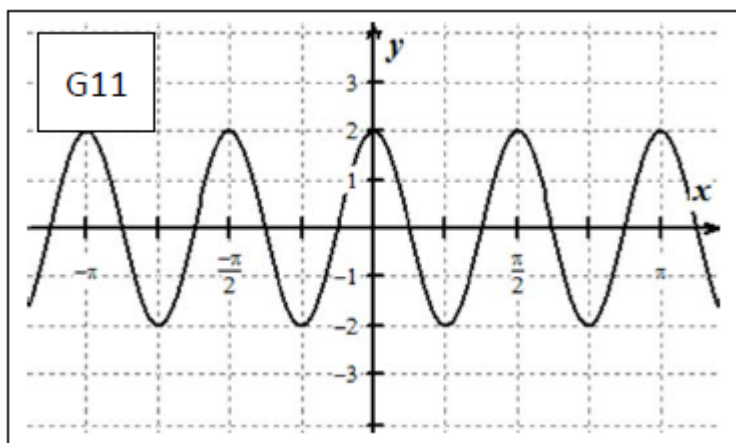
amplitude = _____ period = _____



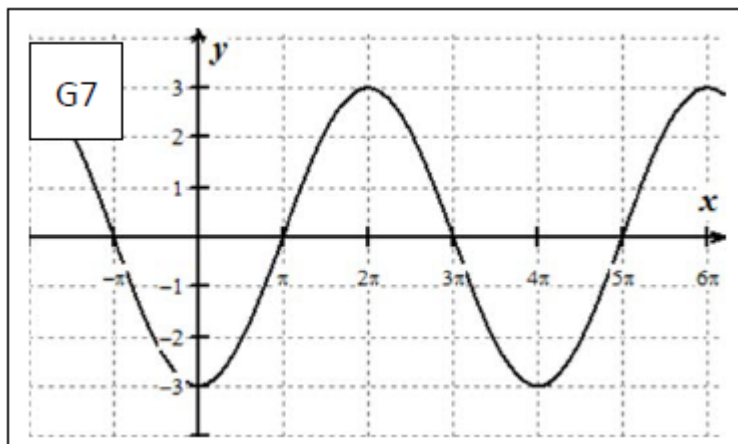
amplitude = _____ period = _____



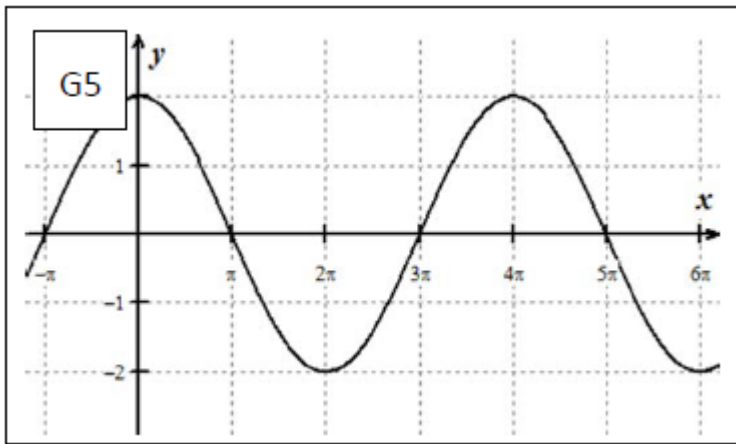
amplitude = _____ period = _____



amplitude = _____ period = _____



amplitude = _____ period = _____



amplitude = _____ period = _____

7.6 - Equations of Sine and Cosine

Determine the amplitude, period, and vertical shift of each sine/cosine function.

	Amplitude	Period	Vertical Shift
1. $y = -4\cos 4x + 7$			
2. $y = 6\sin \frac{1}{3}x - 4$			
3. $y = 7\sin x + 2$			
4. $y = \frac{1}{2}\cos \frac{4}{3}x$			
5. $y = -2\cos 8x - 4$			
6. $y = -\sin 3x + 1$			

7. Given an amplitude of 7, a period of 4π , and a vertical shift down 3 units, write the equation of the sine function.

8. Given an amplitude of 3, a period of $\frac{2\pi}{7}$, and a vertical shift up 7 units, write the equation of the cosine function.

9. Given an amplitude of 74, a period of $\frac{\pi}{46}$, and a vertical shift up 81 units, write the equation of the sine function.