8. Graphs of Trigonometric functions

Name:	Class:	Date:			
		Mark	/ 15	%	

- [2] 1) Find the corresponding acute angle that can be represented by the following angle

- a) -115
- b) $\frac{27\pi}{17}$
- 2) State the quadrant that the following angle lies in

[1]

315

3) Without using your calculator, find the value of the following

[2]

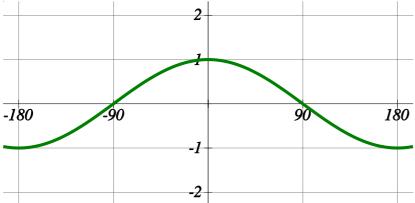
- a) cos 540°
- b) $\cos 3\pi$
- 4) Express the following in terms of a trigonometric function of an acute angle

[3]

- a) $\sin (-45)$
- b) tan 350
- c) $\cos\left(-\frac{7\pi}{9}\right)$
- 5) Find the exact value of the following

[3]

- a) $\cos 240^{\circ}$
- b) sin (-390)
- c) $\tan \frac{2\pi}{3}$

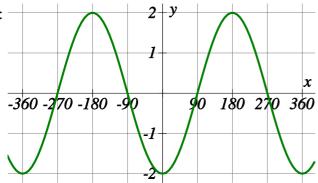


7) Write down the minimum and the maximum values of the following

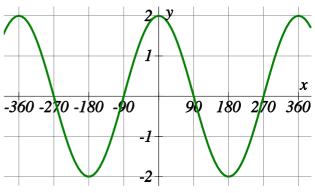
$$-5\cos x$$

8) Which of the following graphs matches the equation $y = -2 \cos x$.

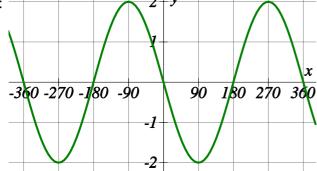
A:



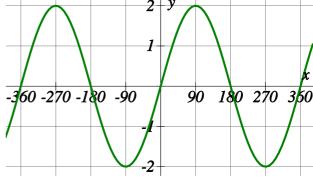
 \mathbf{R}



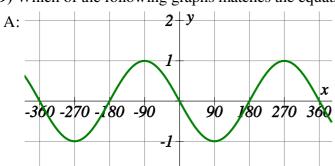
C:



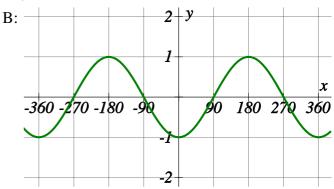
D:

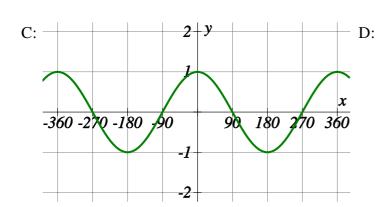


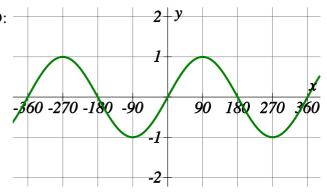
9) Which of the following graphs matches the equation $y = \sin(x + 90)$.



-2-







[1]

Solutions for the assessment 8. Graphs of Trigonometric functions

1) a) Corresponding angle is 65`{::}^@

b) Corresponding angle is $\frac{7\pi}{17}$

- 2) Quadrant 4
- 3) a) $\cos 540^{\circ} = -1$

b) $\cos 3\pi = -1$

4) a) $\sin (-45) = -\sin 45$

b) $\tan 350 = - \tan 10$

- c) $\cos\left(-\frac{7\pi}{9}\right) = -\cos\frac{2\pi}{9}$
- **5)** a) $\cos 240^\circ = -\frac{1}{2}$

b) $\sin (-390) = -\frac{1}{2}$

c) $\tan \frac{2\pi}{3} = -\sqrt{3}$

- $6) y = \cos x$
- 7) The minimum value is -5 and the maximum value is 5
- **8**) A

9) C