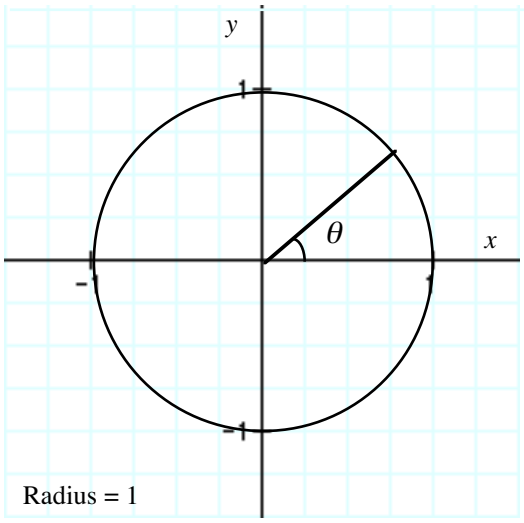
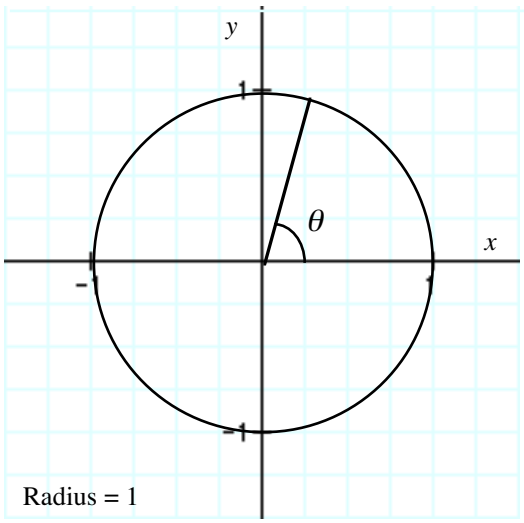
Problems for Gateway #3: The Unit Circle Definition of Sine and Cosine

1. The numerical value of $\cos(\theta)$ is approximately equal to:



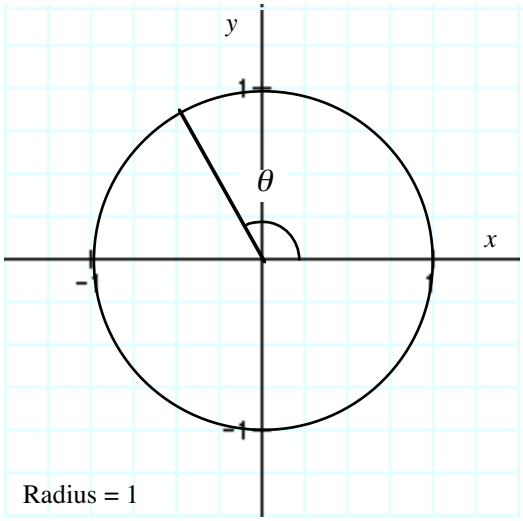
(a) 1 **(b)** 0.3
(c) 0.5 **(d)** 0.8
(e) None of the above.

2. The numerical value of $\cos(\theta)$ is approximately equal to:



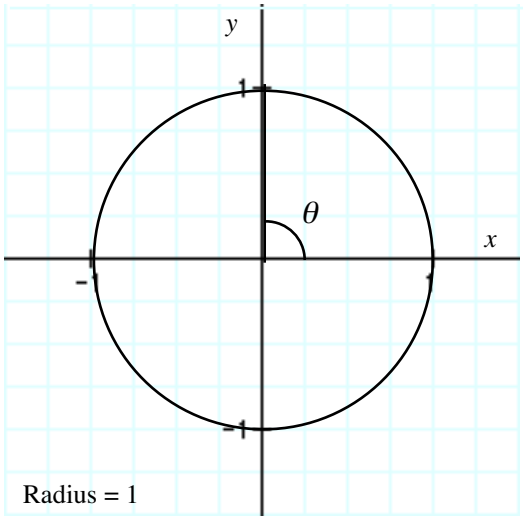
(a) 1 **(b)** 0.25
(c) −1 **(d)** 0.75
(e) None of the above.

3. The numerical value of $\cos(\theta)$ is approximately equal to:



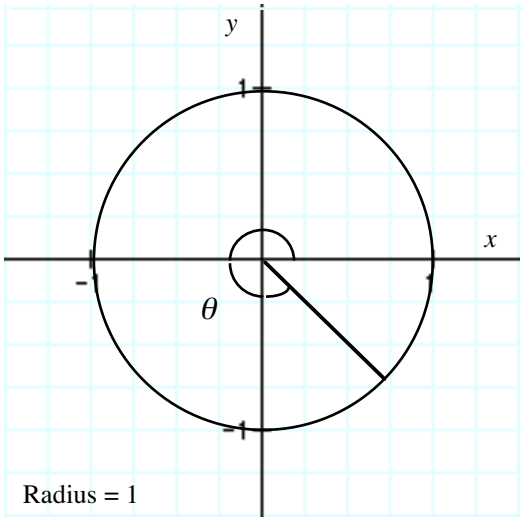
(a) −0.5 **(b)** 0.5
(c) 0.75 **(d)** 0
(e) None of the above.

4. The numerical value of $\cos(\theta)$ is approximately equal to:



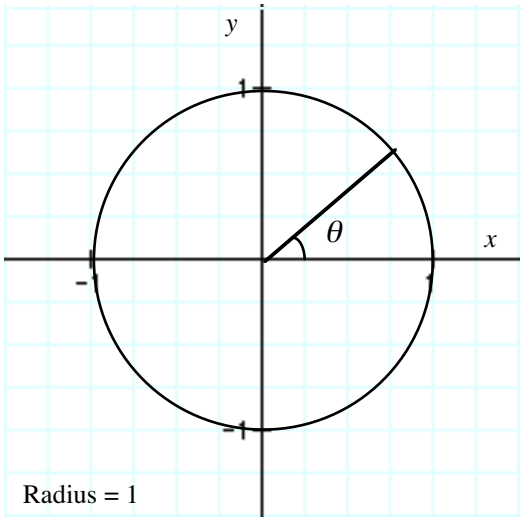
(a) 1 **(b)** 0.5
(c) 0 **(d)** 0.75
(e) None of the above.

5. The numerical value of $\cos(\theta)$ is approximately equal to:



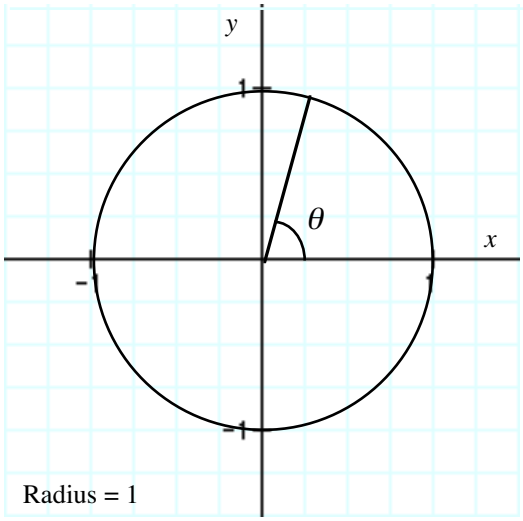
(a) −1 **(b)** 0
(c) 0.75 **(d)** −0.5
(e) None of the above.

6. The numerical value of $\sin(\theta)$ is approximately equal to:



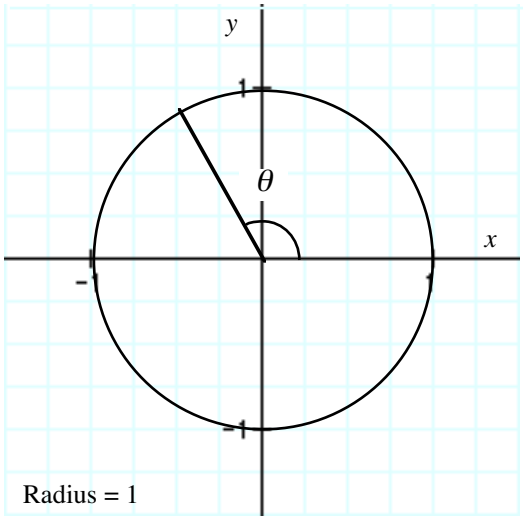
(a) 1 **(b)** 0.6
(c) −0.8 **(d)** 0.2
(e) None of the above.

7. The numerical value of $\sin(\theta)$ is approximately equal to:



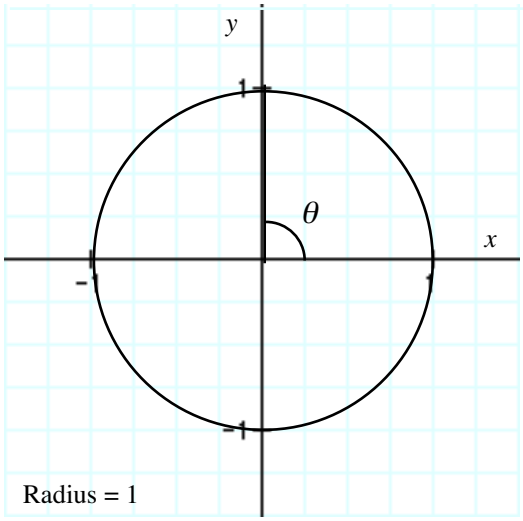
(a) 0.9 **(b)** 0.1
(c) –0.3 **(d)** 0.25
(e) None of the above.

8. The numerical value of $\sin(\theta)$ is approximately equal to:



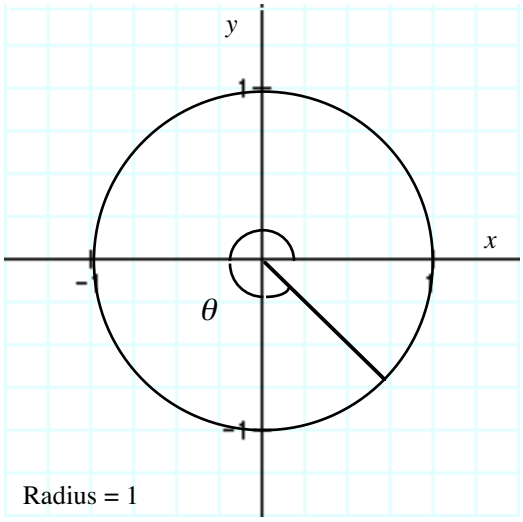
(a) –0.5 **(b)** 0.5
(c) 0.9 **(d)** –0.75
(e) None of the above.

9. The numerical value of sin(θ) is approximately equal to:



(a) 1 **(b)** –1
(c) 0 **(d)** 0.25
(e) None of the above.

10. The numerical value of sin(θ) is approximately equal to:



(a) 0.5 **(b)** –0.75
(c) 0.75 **(d)** –0.1
(e) None of the above.

ANSWERS:

1.	D	**2.**	B	**3.**	A	**4.**	C	**5.**	C	**6.**	B
7.	A	**8.**	C	**9.**	A	**10.**	B				