

## Coterminal Angles

Date \_\_\_\_\_ Period \_\_\_\_\_

**Find a positive and a negative coterminal angle for each given angle.**

1)  $-60^\circ$

2)  $305^\circ$

3)  $384^\circ$

4)  $-135^\circ$

5)  $270^\circ$

6)  $-220^\circ$

7)  $240^\circ$

8)  $90^\circ$

9)  $-20^\circ$

10)  $600^\circ$

11)  $\frac{3\pi}{2}$

12)  $\frac{\pi}{18}$

13)  $\frac{5\pi}{12}$

14)  $-\frac{16\pi}{9}$

15)  $-\frac{3\pi}{4}$

16)  $\frac{17\pi}{12}$

17)  $\frac{97\pi}{36}$

18)  $\frac{25\pi}{12}$

19)  $-\frac{17\pi}{12}$

20)  $\frac{\pi}{3}$

## Answers to Coterminal Angles (ID: 1)

- 1)  $300^\circ$  and  $-420^\circ$   
5)  $630^\circ$  and  $-90^\circ$   
9)  $340^\circ$  and  $-380^\circ$

- 2)  $665^\circ$  and  $-55^\circ$   
6)  $140^\circ$  and  $-580^\circ$   
10)  $240^\circ$  and  $-120^\circ$

- 3)  $24^\circ$  and  $-336^\circ$   
7)  $600^\circ$  and  $-120^\circ$

- 4)  $225^\circ$  and  $-495^\circ$   
8)  $450^\circ$  and  $-270^\circ$

- 13)  $\frac{29\pi}{12}$  and  $-\frac{19\pi}{12}$   
17)  $\frac{25\pi}{36}$  and  $-\frac{47\pi}{36}$

- 14)  $\frac{2\pi}{9}$  and  $-\frac{34\pi}{9}$   
18)  $\frac{\pi}{12}$  and  $-\frac{23\pi}{12}$

- 11)  $\frac{7\pi}{2}$  and  $-\frac{\pi}{2}$   
15)  $\frac{5\pi}{4}$  and  $-\frac{11\pi}{4}$   
19)  $\frac{7\pi}{12}$  and  $-\frac{41\pi}{12}$

- 12)  $\frac{37\pi}{18}$  and  $-\frac{35\pi}{18}$   
16)  $\frac{41\pi}{12}$  and  $-\frac{7\pi}{12}$   
20)  $\frac{7\pi}{3}$  and  $-\frac{5\pi}{3}$