

Name: _____ Date: _____ PD: _____

Converting Between Radians and Degrees

Convert each degree measure into radians.

1) 290°

2) 345°

3) 970°

4) 510°

5) 510°

6) 150°

7) 210°

8) 240°

9) 240°

10) 600°

11) 945°

12) 675°

13) 315°

14) 570°

15) 520°

16) 40°

17) 300°

18) 0°

19) 555°

20) 165°

Convert each radian measure into degrees.

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

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

23) $\frac{35\pi}{18}$

24) $\frac{41\pi}{36}$

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

26) $\frac{107\pi}{36}$

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

28) $\frac{17\pi}{9}$

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

30) $\frac{41\pi}{12}$

Convert each degree measure into radians and each radian measure into degrees.

$$31) \frac{\pi}{6}$$

$$32) \frac{23\pi}{6}$$

$$33) 30^\circ$$

$$34) 930^\circ$$

$$35) -210^\circ$$

$$36) \frac{\pi}{4}$$

The Unit Circle Name _____

_____ Degrees & Radians Conversion Practice Date _____

Convert each degree measure into radians.

$$1) -290^\circ - \frac{29\pi}{18}$$

$$2) 345^\circ \frac{23\pi}{12}$$

$$3) 970^\circ \frac{97\pi}{18}$$

$$4) -510^\circ - \frac{17\pi}{6}$$

$$5) 510^\circ \frac{17\pi}{6}$$

$$6) 150^\circ \frac{5\pi}{6}$$

$$7) 210^\circ \frac{7\pi}{6}$$

$$8) -240^\circ - \frac{4\pi}{3}$$

$$9) 240^\circ \frac{4\pi}{3}$$

$$10) 600^\circ \frac{10\pi}{3}$$

$$11) -945^\circ - \frac{21\pi}{4}$$

$$12) 675^\circ \frac{15\pi}{4}$$

$$13) 315^\circ \frac{7\pi}{4}$$

$$14) 570^\circ \frac{19\pi}{6}$$

$$15) -520^\circ - \frac{26\pi}{9}$$

$$16) 40^\circ \frac{2\pi}{9}$$

$$17) 300^\circ \frac{5\pi}{3}$$

$$18) 0^\circ$$

$$19) 555^\circ \frac{37\pi}{12}$$

$$20) 165^\circ \frac{11\pi}{12}$$

Convert each radian measure into degrees.

$$21) \frac{\pi}{18}$$

$$10^\circ$$

$$23) \frac{35\pi}{18}$$

$$350^\circ$$

$$25) -\frac{3\pi}{2}$$

$$-270^\circ$$

$$27) \frac{\pi}{3}$$

$$60^\circ$$

$$29) -\frac{11\pi}{3} \quad 30) -\frac{3}{12}$$

$$-660^\circ$$

$$31) \frac{14\pi}{3}$$

$$840^\circ$$

$$22) -\frac{25\pi}{12}$$

$$-375^\circ$$

$$24) \frac{41\pi}{36}$$

$$205^\circ$$

$$26) \frac{107\pi}{36}$$

$$535^\circ$$

$$28) -\frac{17\pi}{9}$$

$$-340^\circ$$

$$41\pi$$

$$-615^\circ$$

$$32) -\frac{16\pi}{3}$$

$$-960^\circ$$

$$33) \frac{21\pi}{4}$$

$$945^\circ$$

$$35) \frac{7\pi}{4}$$

$$315^\circ$$

$$37) \frac{13\pi}{6}$$

$$390^\circ$$

$$\pi$$

$$34) -\frac{13\pi}{4}$$

$$-585^\circ$$

$$36) \frac{11\pi}{6}$$

$$330^\circ$$

$$38) \frac{7\pi}{3}$$

$$420^\circ$$

$$3\pi$$

$$39) -\frac{\pi}{3}$$

$$-60^\circ$$

$$40) \frac{\pi}{4}$$

$$135^\circ$$

Convert each degree measure into radians and each radian measure into degrees.

$$41) -\frac{\pi}{6}$$

$$-30^\circ$$

$$23\pi$$

$$-690^\circ$$

$$43) -30^\circ - \frac{\pi}{6}$$

$$44) -930^\circ - \frac{31\pi}{6}$$

$$45) -210^\circ - \frac{7\pi}{6}$$

$$46) \frac{\pi}{4}$$

$$45^\circ$$

$$47) -160^\circ - \frac{8\pi}{9}$$

$$48) -\frac{\pi}{3}$$

$$60^\circ$$

$$49) \frac{11\pi}{6}$$

$$330^\circ$$

$$50) \frac{17\pi}{12}$$

$$255^\circ$$

$$51) 915^\circ - \frac{61\pi}{12}$$

$$52) \frac{\pi}{2}$$

$$90^\circ$$

$$53) -105^\circ - \frac{7\pi}{12}$$

$$54) \frac{4\pi}{9}$$

$$80^\circ$$

$$55) \frac{7\pi}{2}$$

$$630^\circ$$

$$56) \frac{31\pi}{9}$$

$$620^\circ$$

$$57) 230^\circ - \frac{23\pi}{18}$$

$$58) -\frac{13\pi}{6}$$

$$-390^\circ$$

$$17\pi$$

$$11\pi$$

$$59) -170^\circ - \frac{\quad}{18}$$

$$60) 660^\circ \frac{\quad}{3}$$