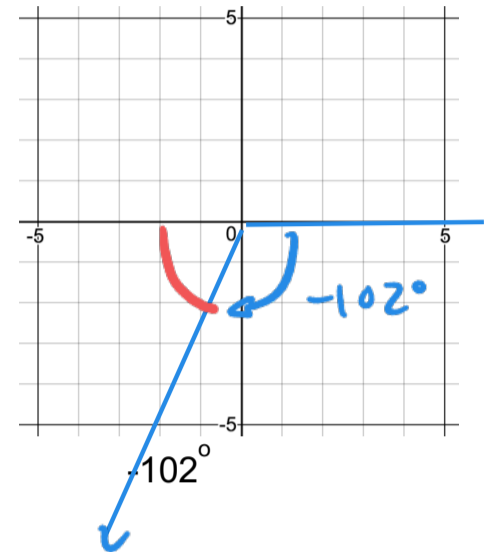
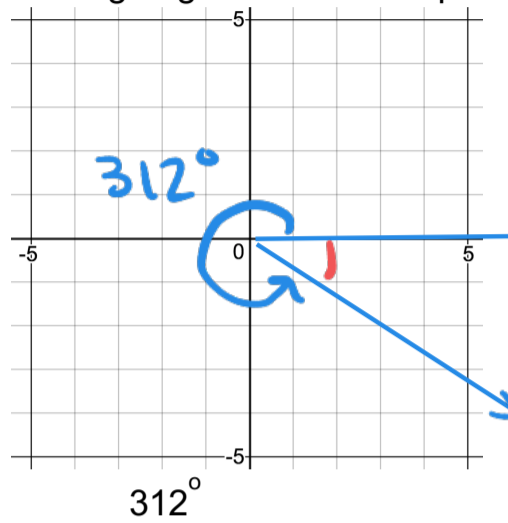
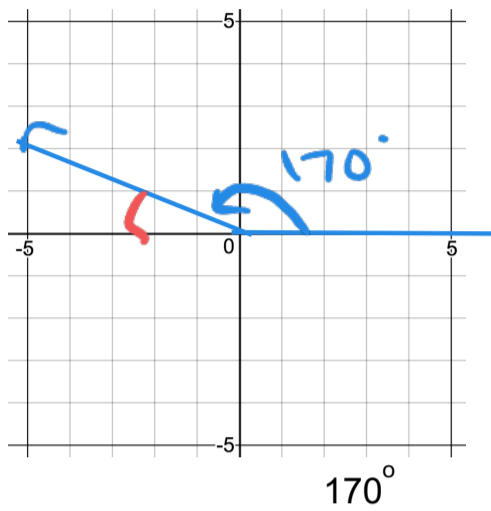


Angle Worksheet 1: Locating angles and REFERENCE ANGLES - degrees

(1) Make a rough sketch of each of the following angles in standard position and give the reference angle



Reference Angle:

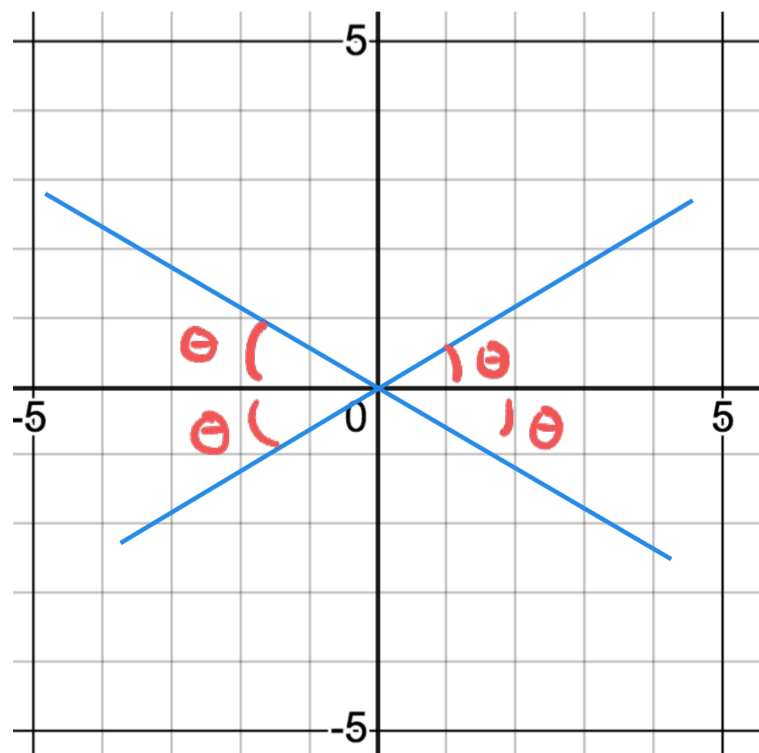
10°

48°

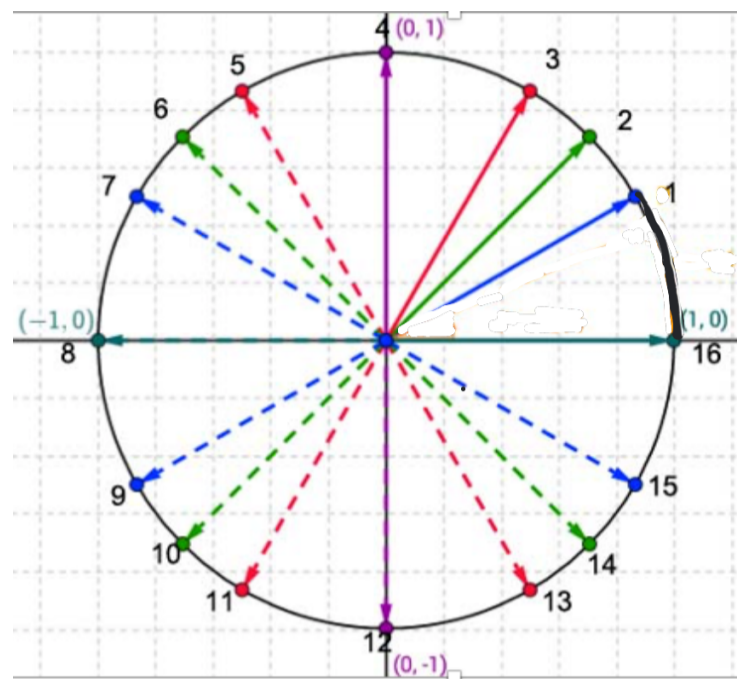
78°

(2) For each of the following acute angles, find 4 angles, one in each quadrant, having the given angle as a reference angle.

	Q1	Q2	Q3	Q4
20°	20°	160°	200°	340°
87°	87°	93°	267°	273°
$\theta^\circ$ (think!)	$\theta$	$180^\circ - \theta$	$180^\circ + \theta$	$360^\circ - \theta$



Angle Worksheet 1: Getting Familiar with the Special Angles – Degrees



Given that all the “blue angles” have a reference angle of 30 degrees write the angle measure for each of the blue angles.

1) 30° (note: the angle numbers are just for reference on this worksheet)

7) 150°

9) 210 degrees

15) 330°

Given that all the “green angles” all have a reference angle of 45 degrees , write the angle measure for each of the green angles.

2) 45°

6) 135 degrees

10) 225°

14) 315°

Given that all the “red angles” have a reference angle of 60 degrees write the angle measures for each of the red angles.

3) 60°

5) 120°

11) 240°

13) 300°

(worksheet continued next page)

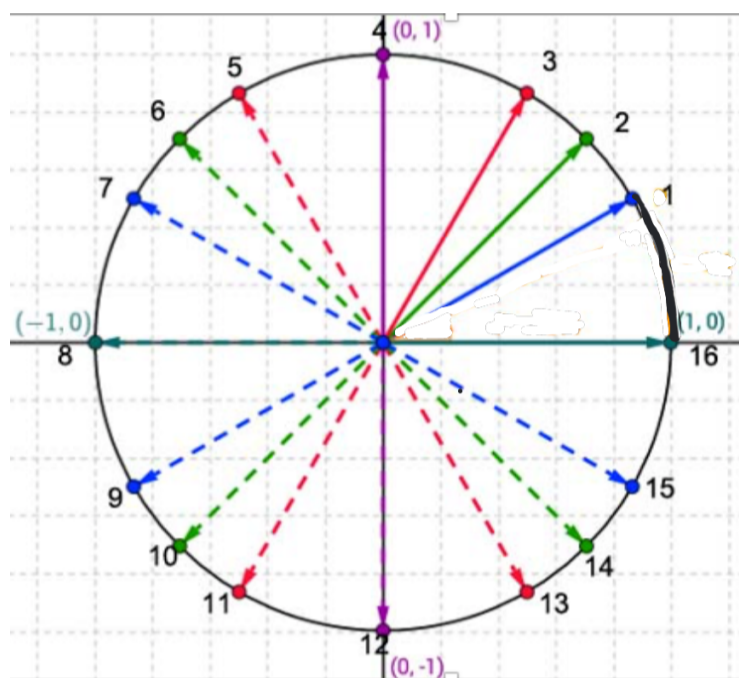
(worksheet contd)

### Locating Special Angles - Degrees

The "blue angles" all have a reference angle of 30 degrees .

The "green angles" all have a reference angle of 45 .

The "red angles" all have a reference angle of 60 degrees .



Locate the following angle and write the corresponding number for each of the following angles. (You need to get quick at this)

$135^\circ$  6

$315^\circ$  14

$180^\circ$  8

$210^\circ$  9

$120^\circ$  5

$300^\circ$  13

$150^\circ$  7

$420^\circ$  3

$765^\circ$  2

$-90^\circ$  12

$-210^\circ$  7

$-270^\circ$  4