Name KEY

Identifying the Standard Angles

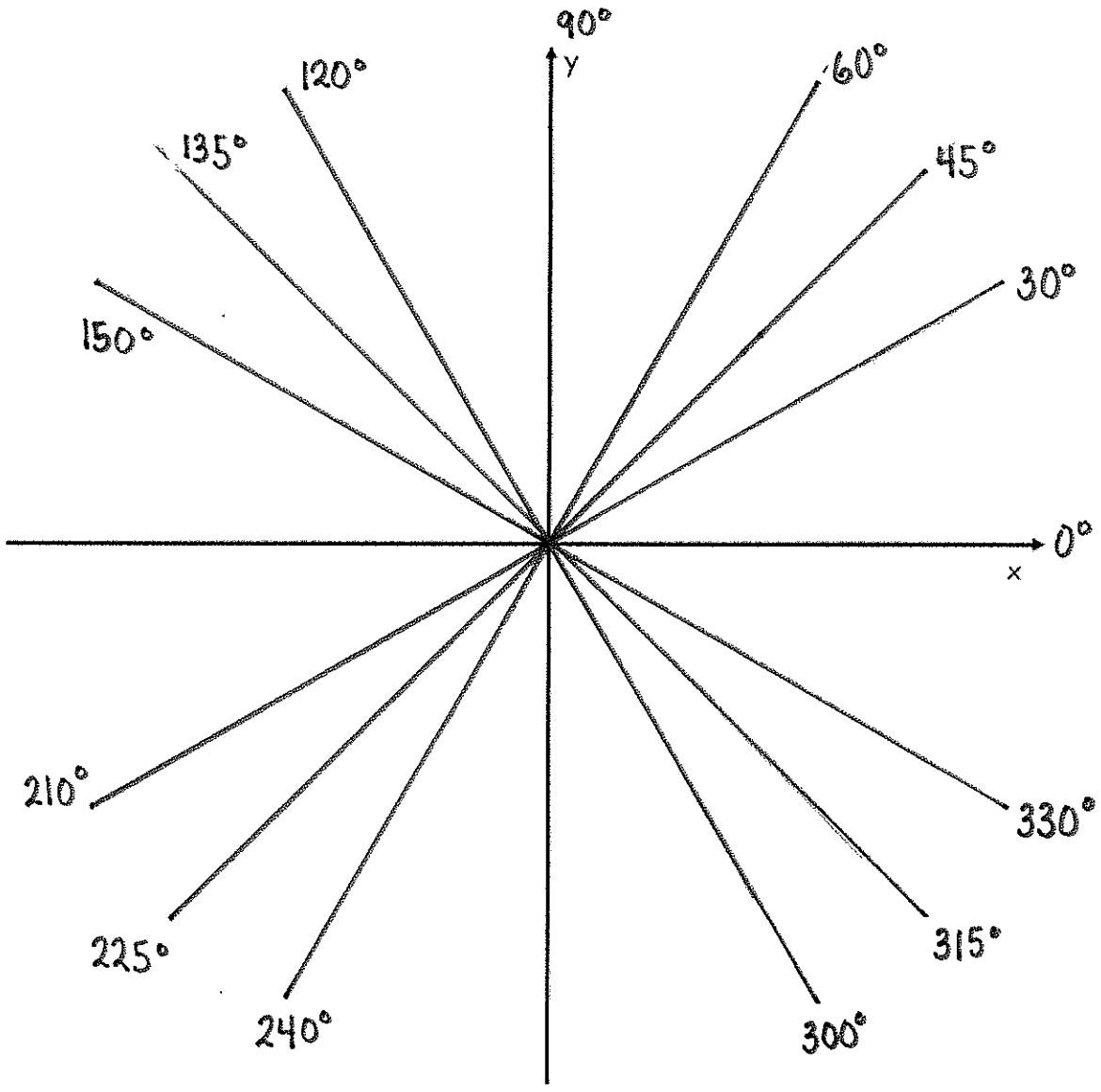
Directions:

- Using your protractor, draw and identify the standard angles, starting with 0 degrees (0 radians) on the positive *x*-axis through one full revolution.
- Lay your folded "patty" paper on top of your diagram. How well did you fold your paper to create the standard angles? Circle one of the following:

not at all kind of pretty well very well perfectly

1 pt for answering

The part of the activity you're doing today is worth 32 points.



4 pts for drawing the standard angles

Fill in the first three columns of the following table. We will fill in the last three columns next week as another in-class activity. That part will be worth 16 points. You will be able to use this as a reference sheet for homework, projects, and in-class activities (but not quizzes or tests).

Fraction of a full revolution	θ in degrees (use ° symbol)	θ in radians (express in terms of π)	sin(θ) in exact form	cos(θ) in exact form	tan(θ) in exact form
0	0°	0			
1/12	30°	π/6			
1/8	45°	$\frac{\pi}{4}$			
$\frac{1}{6}$	60°	π/3			
1/4	90°	π/2			
1/3	120°	$\frac{2\pi}{3}$			
$\frac{3}{8}$	135°	3π/4			
5/12	150°	5π/6			
1/2	180°	π			
$\frac{7}{12}$	210°	7π/6			
5/8	225°	5π/4			
2/3	240°	$\frac{4\pi}{3}$			
$\frac{3}{4}$	270°	3π/2			
5/6	300°	5π/3			
7/8	315°	$\frac{7\pi}{4}$			
$\frac{11}{12}$	330°	11π/6			
1	360°	2π			

↑ ½ pt for each

↖ ↗ 1 pt for each