Name: _____
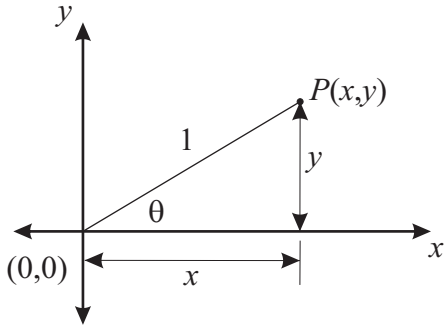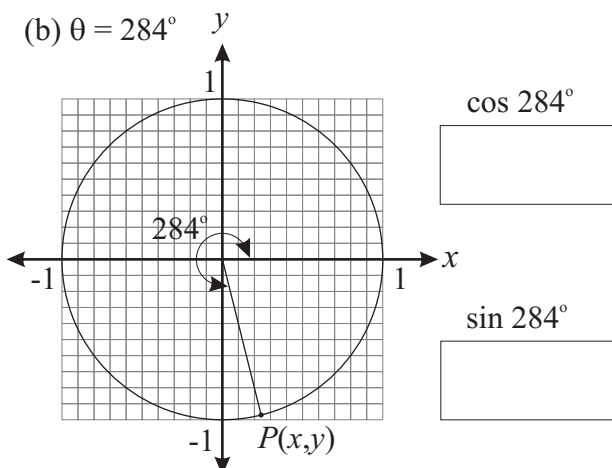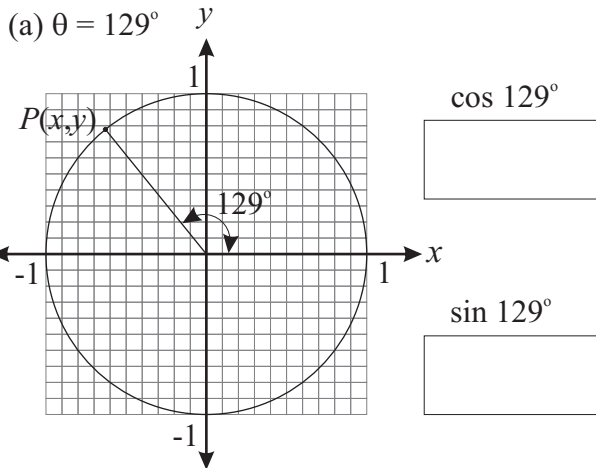

1. Point *P* shown above has coordinates (*x,y*) and is one unit from the origin (0,0). Complete the following with either **cos** θ or **sin** θ.

(a) *x* = _____   (b) *y* = _____

2. Use the graphs below to find approximate values (two decimal places) for cos θ and sin θ of the angles shown.

(a) θ = 129°

cos 129°

sin 129°

(b) θ = 284°

cos 284°

sin 284°

3. Use a calculator to find the exact values correct to four decimal places.

(a) cos 129°   (b) sin 129°

(c) cos 284°   (d) sin 284°

4. State if the following values would be *positive* or *negative*.

(a) cos 210°   (b) sin 327°

(c) cos 83°   (d) sin 196°

5. Complete the following identities.

(a) $\sin^2\theta + \cos^2\theta =$ ☐

(b) $\sin\theta = \sqrt{\underline{\qquad\qquad}}$

(c) $\tan\theta =$ ———

6. Use these identities to find the following. Give answers correct to four decimal places.

(a) Find sin θ if cos θ = 0.4452

(b) Find tan θ if cos θ = 0.4452

(c) Find $\sin^2 28° + \cos^2 28°$