

Name: _____ Date: _____

Problem 1 (4 points). We are given an angle $\theta = 15^\circ$ in standard position.

(i) (2 points) Find an angle coterminal with θ between 720° and 1080° .

Answer, in degrees: _____ Answer, in radians: _____

(ii) (2 points) Find *all* angles coterminal with θ .

Answer, in degrees: _____ Answer, in radians: _____

Problem 2 (4 points). We are given an angle $\phi = \frac{5\pi}{4}$ in standard position.

(i) (2 points) Find an angle coterminal with ϕ between -4π and -2π .

Answer, in degrees: _____ Answer, in radians: _____

(ii) (2 points) Find *all* angles coterminal with ϕ .

Answer, in degrees: _____ Answer, in radians: _____

Problem 3 (1 point). If the actual angle of an angle is 198° , then what is its reference angle?

Answer, in radians: _____

Problem 4 (1 point). If the reference angle of an angle in the fourth quadrant is $\frac{\pi}{18}$, then what is its actual angle?

Answer, in degrees: _____