UNIT CIRCLE

1 Convert the following angles from degrees to radians. Express your answers in terms of π.

a. 0° _____   e. 120° _____

b. 30° _____   f. 135° _____

c. 45° _____   g. 150° _____

d. 90° _____   h. 180° _____

2 What are the coordinates of the point on the unit circle for an angle of 0°?

3 At what two angles within 0° to 360° does sine equal 1/2?

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4 Why is the tangent function undefined at 90° and 270°?