

# Precalculus Homework Angles

1. Convert from degrees to radians.

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|------------------|-------------------|---------------------|
| (a) $15^\circ$ . | (h) $120^\circ$ . | (o) $360^\circ$ .   |
| (b) $30^\circ$ . | (i) $135^\circ$ . | (p) $405^\circ$ .   |
| (c) $36^\circ$ . | (j) $150^\circ$ . | (q) $1200^\circ$ .  |
| (d) $45^\circ$ . | (k) $180^\circ$ . | (r) $-900^\circ$ .  |
| (e) $60^\circ$ . | (l) $225^\circ$ . | (s) $-2014^\circ$ . |
| (f) $75^\circ$ . | (m) $270^\circ$ . |                     |
| (g) $90^\circ$ . | (n) $305^\circ$ . |                     |

2. Convert from radians to degrees. The answer key has not been proofread, use with caution.

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|-------------------------|-------------------------|---------------|
| (a) $4\pi$ .            | (d) $\frac{4}{3}\pi$ .  | (g) 5.        |
| (b) $-\frac{7}{6}\pi$ . | (e) $-\frac{3}{8}\pi$ . |               |
| (c) $\frac{7}{12}\pi$ . | (f) $2014\pi$ .         | (h) $-2014$ . |

3. Find the indicated circle arc-length. The answer key has not been proofread, use with caution.

- (a) Circle of radius 3, arc of measure  $36^\circ$ .
- (b) Circle of radius  $\frac{1}{2}$ , arc of measure  $100^\circ$ .
- (c) Circle of radius 1, arc of measure 3 (radians).
- (d) Circle of radius 3, arc of measure  $300^\circ$ .