Degrees/Radians Conversion Practice

Name: _____ Date: _____

Question 1

Convert to radians

I. $45° =$

II. $33° =$

III. $9° =$

IV. $330° =$

V. $360° =$

VI. $21° =$

VII. $1° =$

VIII. $180° =$

IX. $120° =$

Question 2

Convert to degrees

I. $2\pi =$

II. $5\pi / 6 =$

III. $\pi =$

IV. $5\pi / 12 =$

V. $113\pi / 60 =$

VI. $21\pi / 20 =$

VII. $79\pi / 45 =$

VIII. $16\pi / 45 =$

IX. $359\pi / 180 =$

Degrees/Radians Conversion Practice

Name: **Key** Date: _____

Question 1

Convert to radians

I. $45° = 1\pi / 4$

$45° \cdot (\pi / 180) = 1\pi / 4$

II. $33° = 11\pi / 60$

$33° \cdot (\pi / 180) = 11\pi / 60$

III. $9° = 1\pi / 20$

$9° \cdot (\pi / 180) = 1\pi / 20$

IV. $330° = 11\pi / 6$

$330° \cdot (\pi / 180) = 11\pi / 6$

V. $360° = 2\pi$

$360° \cdot (\pi / 180) = 2\pi$

VI. $21° = 7\pi / 60$

$21° \cdot (\pi / 180) = 7\pi / 60$

VII. $1° = 1\pi / 180$

$1° \cdot (\pi / 180) = 1\pi / 180$

VIII. $180° = \pi$

$180° \cdot (\pi / 180) = \pi$

IX. $120° = 2\pi / 3$

$120° \cdot (\pi / 180) = 2\pi / 3$

Question 2

Convert to degrees

I. $2\pi = 360°$

$2\pi \cdot (180 / \pi) = 360°$

II. $5\pi / 6 = 150°$

$5\pi / 6 \cdot (180 / \pi) = 150°$

III. $\pi = 180°$

$\pi \cdot (180 / \pi) = 180°$

IV. $5\pi / 12 = 75°$

$5\pi / 12 \cdot (180 / \pi) = 75°$

V. $113\pi / 60 = 339°$

$113\pi / 60 \cdot (180 / \pi) = 339°$

VI. $21\pi / 20 = 189°$

$21\pi / 20 \cdot (180 / \pi) = 189°$

VII. $79\pi / 45 = 316°$

$79\pi / 45 \cdot (180 / \pi) = 316°$

VIII. $16\pi / 45 = 64°$

$16\pi / 45 \cdot (180 / \pi) = 64°$

IX. $359\pi / 180 = 359°$

$359\pi / 180 \cdot (180 / \pi) = 359°$