

MAINE 1995 NATIONAL CONVENTION ANSWERS

STATE BOWL ALPHA

R1 - 1. $\frac{5\pi}{6}$

R1 - 2. 320

R1 - 3. -19

R1 - 4. $31 < x < 135$

R2 - 1. 625

R2 - 2. $-4 - 4i$

R2 - 3. \$5.11

R2 - 4. 8

R3 - 1. 16 and -16

R3 - 2. 0

R3 - 3. $\frac{3}{70}$

R3 - 4. $x = 10$

R4 - 1. $b = \frac{\pm 5\sqrt{3}}{3}$

R4 - 2. (4,3)

R4 - 3. 15"

R4 - 4. $\left(\frac{1}{2}, \frac{3}{4}\right), \left(3, \frac{9}{2}\right)$

STATE BOWL THETA

R1 - 1. $\frac{12}{17}$

R1 - 2. 1, 3, and 7

R1 - 3. 555

R1 - 4. 360

R2 - 1. 144

R2 - 2. 23, 29

R2 - 3. $x = -\frac{2}{3}$

R2 - 4. 40

R3 - 1. 4 and 16

R3 - 2. 19

R3 - 3. 4

R3 - 4. 16 or 16%

R4 - 1. 1600

R4 - 2. 3

R4 - 3. 513

R4 - 4. 2,455,200