

# MAINE 1995 NATIONAL CONVENTION ANSWERS

## OMEGA BOWL ALPHA

R1 - 1.  $-\frac{3}{2}$

R1 - 2. 4 oz.

R1 - 3. 26

R1 - 4.  $\left(\frac{1}{2}, -\frac{1}{5}\right)$

R2 - 1.  $\emptyset$

R2 - 2. 5

R2 - 3. 8:9

R2 - 4.  $4\pi\sqrt{34}$

R3 - 1.  $AB = 12$

R3 - 2. 4 hours

R3 - 3. 10

R3 - 4. 18

R4 - 1. -4

R4 - 2. \$321.60

R4 - 3. 12

R4 - 4.  $\emptyset$

R5 - 1. 800%

R5 - 2.  $x = 20; y = 10$

R5 - 3.  $n = 9$  or  $n = 10$

R5 - 4.  $k = -4$

## OMEGA BOWL THETA

R1 - 1. 1

R1 - 2. \$726.15

R1 - 3.  $\frac{27}{512}$

R1 - 4.  $\frac{\pi}{9 - \pi}$

R2 - 1.  $-5 < x < 1$

R2 - 2.  $22\frac{1}{2}^\circ$

R2 - 3.  $x = -1$

R2 - 4. 9

R3 - 1. 63

R3 - 2. 24

R3 - 3. 1

R3 - 4. 216

R4 - 1. 80.92

R4 - 2. -2

R4 - 3. 24

R4 - 4. 28

R5 - 1. 1

R5 - 2. 12

R5 - 3.  $\frac{x + 6}{x - 1}$

R5 - 4.  $k = -43$