

MAINE 1995 NATIONAL CONVENTION ANSWERS

SCHOOL BOWL ALPHA

R1 - 1. 0

R1 - 2. -1024

R1 - 3. 3

R1 - 4. $\frac{35}{2}$

R2 - 1. 48

R2 - 2. (2,4), (6,3), (18,2), (54,1)

R2 - 3. $\left(\frac{21}{5}, 3\right)$

R2 - 4. 92

R3 - 1. 160

R3 - 2. $-2\sqrt{2}$

R3 - 3. 144

R3 - 4. 8

R4 - 1. 13

R4 - 2. $-\frac{9}{13}$

R4 - 3. $\frac{26}{3}$

R4 - 4. 16

SCHOOL BOWL THETA

R1 - 1. -392

R1 - 2. $r = \frac{2}{3}$

R1 - 3. $\frac{27}{5}$ or $5\frac{2}{5}$ or 5.4

R1 - 4. 12

R2 - 1. $-\frac{1}{3}$

R2 - 2. 4 feet

R2 - 3. 106

R2 - 4. 4

R3 - 1. $\frac{84}{5}$

R3 - 2. 119

R3 - 3. $\left(\frac{201}{2}, \frac{199}{2}\right)$

R3 - 4. $x = 3$ or $x = 8$

R4 - 1. 110

R4 - 2. (-1, -9)

R4 - 3. $x + 3$

R4 - 4. 100 degrees