

Geometry Homework #3 – Answer Key

- 1) *Circumference* = 48π exactly and 150.72 approximately
Area = 576π exactly and 1,808.64 approximately
- 2) $x = 23$ Angles are $58^\circ, 97^\circ, 25^\circ$
- 3) Perimeter = 63 Area = 117
- 4) Perimeter = 980 feet Area = 52,800 square feet
- 5) Red: Perimeter = 404 inches Area = 2,436 square inches
White: Circumference = 18π inches Area = 81π square inches
Blue: Perimeter = 222 inches Area = $2,088 - 81\pi$ square inches
Flag: Perimeter = 278 inches Area = 4,524 square inches
- 6) $4\sqrt{3}$
- 7) $6\sqrt{2}$
- 8) $\frac{24}{5}$ or 4.8
- 9) 7
- 10) 5
- 11) $\frac{98}{5}$ or 19.6
- 12) 20
- 13) 18
- 14) 24
- 15) $17\sqrt{2}$
- 16) 3
- 17) 147 inches
- 18) $7\sqrt{3}$
- 19) $12\sqrt{2}$
- 20) 2,400 feet