Geometry Homework #2 – Answer Key

- 1) y = -4 Angles are $37^{\circ}, 96^{\circ}, 47^{\circ}$
- 2) x = 5 Angles are $23^{\circ}, 157^{\circ}$
- 3) Perimeter = 546 Area = 10.920
- 4) Perimeter = 54 Area = 252
- 5) Perimeter = 74 Area = 180
- 6) Circumference = 16π exactly and 50.24 approximately Area = 64π exactly and 200.96 approximately
- 7) Perimeter = 380 yards Area = 8,625 square yards
- 8) Perimeter = 148 inches Area = 1,254 square inches
- 9) Circumference = 26π exactly and 81.64 approximately Area = 169π exactly and 530.66 approximately
- 10) Red: Perimeter = 130 inches Area = 722 square inches White: Perimeter = 130 inches Area = 722 square inches Blue: Perimeter = 108 inches Area = 418 square inches Flag: Perimeter = 174 inches Area = 1,862 square inches
- 11) Circumference = 26π inches exactly and 81.64 inches approximately Area = 169π square inches exactly and 530.66 inches square approximately
- 12) Circumference = 58π exactly and 182.12 approximately Area = 841π exactly and 2640.74 approximately
- 13) Perimeter = 128 inches Area = 988 square inches
- 14) Green: Perimeter = 164 inches Area = 1,152 square inches Yellow: Perimeter = 168 inches Area = 768 square inches Red: Perimeter = 164 inches Area = 1,152 square inches Flag: Perimeter = 224 inches Area = 3,072 square inches
- 15) Circumference = 15π exactly and 47.1 approximately $Area = \frac{225}{4}\pi \text{ exactly and } 176.625 \text{ approximately}$
- 16) Circumference = 110π feet exactly and 345.4 feet approximately Area = 3025π square feet exactly and 9,498.5 square feet approximately
- 17) Black: Perimeter = 128 inches Area = 456 square inches Green: Perimeter = 181 inches Area = 1,292 square inches White: Perimeter = 162 inches Area = 1,178 square inches Red: Perimeter = 181 inches Area = 1,292 square inches Flag: Perimeter = 262 inches Area = 4,218 square inches
- 18) Circumference = 174π exactly and 546.36 approximately Area = 7569π exactly and 23766.66 approximately
- 19) Red: Perimeter = 120 inches Area = 756 square inches Yellow: Perimeter = 228 inches Area = 672 square inches Green: Perimeter = 328 inches Area = 1,428 square inches Flag: Perimeter = 220 inches Area = 2,856 square inches
- 20) Circumference = 30π inches exactly and 94.2 inches approximately Area = 225π square inches exactly and 706.5 square inches approximately