

Geometry Homework #12 – Answer Key

- 1) Chord $AB = 8\sqrt{3}$, Arc $AB = \frac{16\pi}{3}$, Area of Sector $ACB = \frac{64\pi}{3}$
- 2) 77°
- 3) 106°
- 4) $\angle ABD = 37^\circ$, segment $BE = 14$
- 5) $\angle ACB = 80^\circ$, arc $BE = 78^\circ$, and arc length $BA = 8\pi$
- 6) $\frac{1}{32}$
- 7) 210
- 8) $\frac{1}{6}$
- 9) $\frac{2}{33}$
- 10) $\frac{1}{18}$
- 11) $\frac{6120}{1001}$
- 12) $\frac{1}{270,725}$ and $\frac{1}{28,561}$
- 13) $\frac{1}{3}$
- 14) $\frac{1}{2,598,960}$ and $\frac{1}{311,875,200}$
- 15) $\frac{17}{2475}$
- 16) $\frac{25}{216}, \frac{1}{216}, \frac{25}{46,656}$
- 17) \$40
- 18) $\frac{1377}{7436}$
- 19) \$50
- 20) $\frac{1}{52,677,670,500}$