

Practice Problems – Page 12

- 1) Volume = $972\pi \text{ in}^3$ SA = $324\pi \text{ in}^2$
- 2) $196\pi \text{ cm}^2$
- 3) $36\pi \text{ cm}^3$
- 4) Question missing if assume
surface area = $360 + 75\sqrt{3} \text{ in}^2$
volume = $450\sqrt{3} \text{ in}^3$

Practice Problems – Page 15-16

- 1) 59°
- 2) 126°
- 3) $42\pi \text{ cm}$
- 4) 12 m
- 5) 64°
- 6) 8π
- 7) 3517π
- 8) 396

Practice Problems – page 18 - 19

- 1) 40
- 2) $21/5$ or $4 \frac{1}{5}$ or 4.2
- 3) 4
- 4) $a = 20/3$ or $6 \frac{2}{3}$ (note no decimal equivalent – do not use repeating decimals)
 $c = 18/5$ or $3 \frac{3}{5}$ or 3.6
- 5) $r = 54/5$ or $10 \frac{4}{5}$ or 10.8
 $s = 10$
- 6) 90 feet
- 7) 32cm

Practice Problems - Page 31

- 1) $\sin C = 5/13$ $\cos C = 12/13$ $\tan C = 5/12$
- 2) .0 (yes kind of a weird answer. Probably was supposed to be 20 degrees or something instead of just 2)
- 3) 76.3°
- 4) rounded to 3 decimal places $x = 20.898$ Area = 132.050
- 5) $x = 88.531^\circ$ $mC = 28.772^\circ$
- 6) $x = 10.938$ 62°
- 7) 16.301°
- 8) 12.302°
- 9) 128.7 m

10) 171 ft

11) 45°