Answers to Final Review.

Remember that you have to show work to get credit.

Also, anything typed using math symbols will not show on your phone. You get the real answers if you use a computer with Microsoft Word installed.

1) 1017.4 cm2

2) 3 times as much

3) 680 m3

4) 7.5 cm (show algebra to solve)

5) 154 in3

6) 43354 cm2 (on a multiple choice test, this answer would probably be appr. 44000

7) r= 4 cm

8) 12.1 in

9) 1193 ft3

10) 179503 cm3

11) 66 cm3

12) 19897 ft3

13) 13.06 in

14) 6480 in3 bigger

15) 33 ft3

16) 54 in2

17) 275.7 in3

18) 100 more cubic ft or 1.5 times as much

19) 336 in3

20) A) 10 m high and 6 m across; 5 m high and 12 m across

20)B) get the wider tank. It holds 180Ä; the narrower one holds half as much.

21) volume – 32 cm3; surface area: 68 cm2 (don’t have to do the surface area)

22) a) 40° b) 140° c) 20°

23) 50°

24) 45°

25) a) 65° b) 245°

26) a) 55° b) 125° c) 180°

27) a) 154.3° b) 25.7° (show algebra on this one)

28) 150°

29) 15°

30) 186°

31) a) $\hat{JIG}$ is one example b) $\hat{JI}$ or $\hat{GJ}$

32) a) 180° b) 180° c) 90° d) 90°

33) 6.4 units (show use of arc length formula from handout)

34) 100°

35) 100°

36) 10.5 in (show use of formula)

37) 82 in2 (show use of formula)

38) a) $\overbar{AH}or\overbar{DH}$or$\overbar{CH}or\overbar{GH}$

 b) $\overbar{GC}or\overbar{AD}$

 c) $\overleftrightarrow{EF}$

 d) $\overleftrightarrow{GE}$

 e) GD or AD or GC or AB or BD (put a segment mark over your answer)

 f) ∆CDH

 g) ∆ABD

 h) $\hat{AB}or\hat{BC}or\hat{CD}or\hat{AC}or\hat{BD}$

 i) there are MANY here are some:

 $\hat{ABG}or\hat{ACG}or\hat{GAD}$ etc.

 j) ∠BAD or ∠GCD or ∠CDG etc.

 k) ∠AHG (many others… middle letter must be H because it’s the center of the circle, a central angle