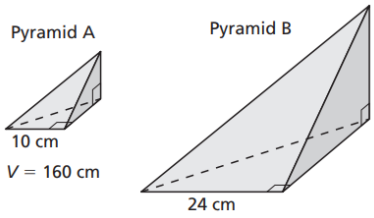
Name: Date: Period:

HW #11-12

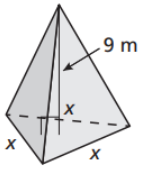
1. A pyramid with a square base has a volume of 119.07 m^3 and a height of 9 m. Find the side length of the square base.

2. A pyramid with a hexagonal base has a volume of about 1082.54 in^3 and a base area of about 259.81 in^2. Find the height of the pyramid.

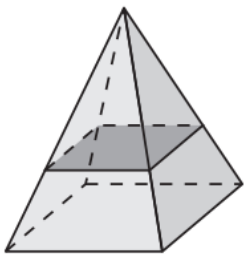
3. The pyramids are similar. Find the volume of pyramid B.



4. The volume of the pyramid shown is $48\sqrt{3}$ m^3. Find the value of x.



5. A right square pyramid has a base with a perimeter of 36 cm and a height of 12 cm. One-third of the distance from the base, the pyramid is cut by a plane parallel to its base. What is the volume of the top pyramid?



6. Find the volume and surface area of a regular octahedron with a side length of 10 cm. Exact answers.

7. Find the volume and surface area of a regular tetrahedron with a side length 10 cm. Exact answers.

8. Graph (4, 6, 3)

9. Find the distance between (2, 3, 7) and (9, 10, 10). Exact answer.

10. Find the midpoint of the segment whose endpoints are (2, 5, 3) and (8, 8, 10)

11. Find the endpoint of the segment whose midpoint is (6.5, 9, 12.5) and with one endpoint at (9, 12, 15).