**Volume of Cones Notes** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cylinder | Cone | Ratio of VolumesCone : Cylinder |
|  |  |  |  |
| 1 | Length of Radius: 6 cmHeight of Cylinder: 10 cmVolume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Length of Radius: 6 cmHeight of Cone: 10 cmVolume: 376.8 cm3 |  |
| 2 | Length of Radius: 9 inHeight of Cylinder: 15 inVolume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Length of Radius: 9 inHeight of Cone: 15 inVolume: 1271.7 in3 |  |
| 3 | Length of Radius: 18 ftHeight of Cylinder: 7 ftVolume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Length of Radius: 18 ftHeight of Cone: 7 ftVolume: 2373.84 ft3 |  |

Looking at the ratios you wrote for the volume of the cone to the volume of the cylinder, what conclusions can you make?

|  |  |
| --- | --- |
| **Volume of a Cylinder** | **Volume of a Cone** |
|  |  |

**Using the formula, find the volume of the cones from above. Use 3.14 for** $π$

|  |  |  |
| --- | --- | --- |
| 1) | 2) | 3) |

![C:\Documents and Settings\jainslie\Local Settings\Temporary Internet Files\Content.IE5\6W2FJPU3\MC900432687[1].png]()**Pause the video and try the problems on your own! Round to the nearest tenth if necessary.**

**Then press play and check your answers with a color pen.**

|  |  |  |
| --- | --- | --- |
| 1)  | 2)  | 3)  |