

*University of Lethbridge*  
Department of Mathematics and Computer Science  
**MATH 1565 - Quiz #5**

Print your name and student number clearly in the space above.

Complete the problems on the back of this page to the best of your ability. For full marks, provide complete details.

1. A spherical snowball is melting in such a way that its volume is decreasing at a rate of  $\pi$   $\text{cm}^3/\text{minute}$ . At what rate is the radius of the snowball decreasing when the radius is 10 cm?