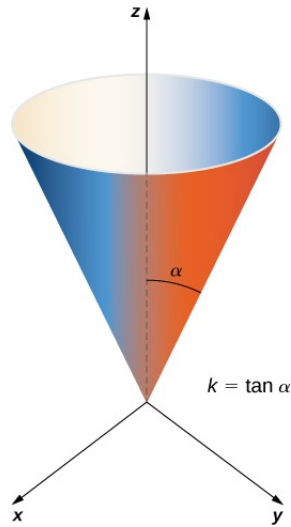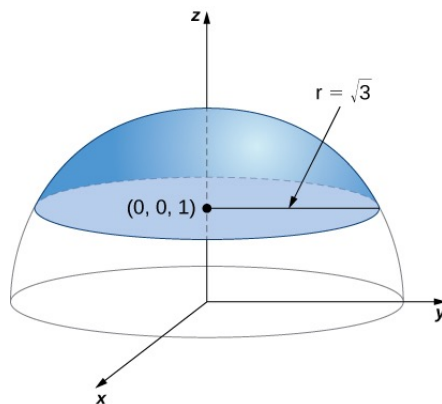# Worksheet for November 14

Problems marked with an asterisk are to be placed in your math diary.

(1*.) Calculate the surface area of the right circular cone with height h and radius r.

(2.*) Find the surface area of that part o f the sphere of radius 2 centered at the origin that lies on or above the plane $z = 1$.

(3.*) Set up the integral giving the surface area of the surface of revolution, for $y = x^2$, with $0 \leq x \leq b$. If you are so inclined, you can use a table of integrals to calculate the final answer.

$y = x^2$

C

0

x'