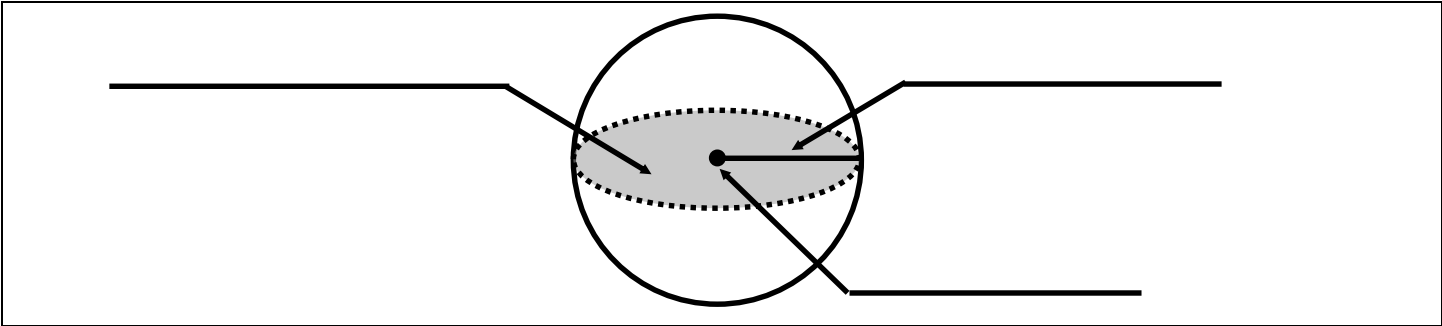


NOTES 12.6
SURFACE AREA & VOLUME OF SPHERES



FORMULAS

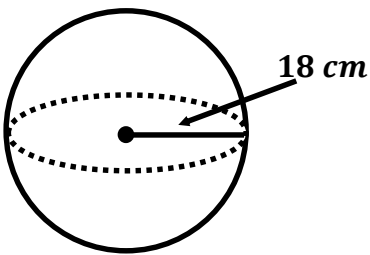
SURFACE AREA:

VOLUME:

EXAMPLE 1: Find the **EXACT** *Surface Area* of a sphere with a *radius* of 4 cm.

SA = _____

EXAMPLE 2: Find the **EXACT** *Volume* of the sphere below.



V = _____

EXAMPLE 3: A sphere has a *diameter* of 12 cm. Find its *Surface Area* and *Volume*.

SA = _____

V = _____

EXAMPLE 4: If a sphere has a *volume* of $\frac{4000\pi}{3}$ *cubic units*. Find its *radius*, *diameter*, and *Surface Area*.

$r =$ _____

$d =$ _____

$SA =$ _____

EXAMPLE 5: If a sphere has a *Surface Area* of 12π *square units*, find its *radius*, *diameter*, and *Volume*.

$r =$ _____

$d =$ _____

$V =$ _____

EXAMPLE 6: If the great circle of a sphere has a *circumference* of 32π *units*. Find the *Surface Area* and *Volume* of the sphere.

$SA =$ _____

$V =$ _____