### Circles:

- **Area**: $A = \pi r^2$
- **Circumference**: $2\pi r$

### Spheres:

- **Volume**: $V = \frac{4}{3}\pi r^3$
- **Surface Area**: $4\pi r^2$

### Cylinders:

- **Volume**: $V = \pi r^2 h$
- **Surface**: $2\pi r h + 2\pi r^2$ (top and bottom)

### Cones:

- **Volume**: $V = \frac{1}{3}\pi r^2 h$
- **Surface**: $\pi rs + \pi r^2$ (bottom)

### Triangles:

- **Pythagorean Theorem**: $a^2 + b^2 = c^2$
- **Law of Sines**: $\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$
- **Law of Cosines**: $c^2 = b^2 + a^2 - 2ab \cos C$

*Those formulas in boxes will appear often in problem sets and exams. You are expected to know them and they will not be provided for you. So MEMORIZE them. Those not in boxes don't come up as much, so you don't have to memorize them.*