Ohio Graduation Tests Mathematics Reference Sheet

Information that may be needed to solve problems on the Mathematics Test:

Area Formulas

Volume Formulas

parallelogram	A = bh
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$$V = \frac{1}{3}\pi r^2 h$$

$$A = Iw$$

$$V = \pi r^2 h$$

$$A = \frac{1}{2}h(b_1 + b_2)$$

$$V = \frac{1}{3}Bh$$

$$V = \frac{1}{3}Bh$$
 $B = \text{area of base}$

$$A = \frac{1}{2}bh$$

$$V = Iwh$$

V = Bh B = area of base

$$C = 2\pi r$$
 $\pi \approx 3.14 \text{ or } \frac{22}{7}$

$$\pi \approx 3.14 \text{ or } \frac{22}{7}$$

right prism

$$V = \frac{4}{3}\pi r^3$$

$A = \pi r^2$

Trigonometry

Combinations

$$_{n}C_{r}=C(n,r)=\frac{n!}{r!(n-r)!}$$

$$\sin A = \frac{opposite}{hypotenuse}$$

Permutations

$$_{n}P_{r}=P(n,r)=\frac{n!}{(n-r)!}$$

$$\cos A = \frac{adjacent}{hypotenuse}$$

$$\tan A = \frac{opposite}{adjacent}$$

Distance Formula

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



