

MARKS EDUCATION

ACT Math Formulas

Geometry

Vertical angles are congruent: $\angle A \cong \angle C$ and $\angle B \cong \angle D$.

Adjacent angles are supplementary: $\angle A$ and $\angle B$ are supplementary, $\angle A$ and $\angle D$ are supplementary.

For parallel lines m and n :

$\angle A \cong \angle D \cong \angle E \cong \angle H$ and $\angle B \cong \angle C \cong \angle F \cong \angle G$.

$\angle A$ is supplementary to $\angle B$, $\angle C$, $\angle F$, and $\angle G$.

Polygons

Sum of interior angles of a polygon with n sides is $(n-2) \cdot 180^\circ$

Measure of each interior angle of a regular polygon with n sides is $\frac{(n-2) \cdot 180^\circ}{n}$

 Triangle Area: $A = \frac{1}{2}bh$	 Rectangle Area: $A = lw$ Perimeter: $P = 2l + 2w$
 Square Area: $A = s^2$ Perimeter: $P = 4s$	 Parallelogram Area of a $A = bh$
 Trapezoid Area: $A = \frac{b_1 + b_2}{2}h$	 Right Circular Cylinder Volume $V = \pi r^2 h$
 Rectangular Solid Volume: $V = lwh$ Surface area: $A = 2ab + 2ac + 2bc$ Longest diagonal: $d = \sqrt{a^2 + b^2 + c^2}$	

Right Triangles

Pythagorean Theorem: $a^2 + b^2 = c^2$

Pythagorean Triples: $\{3, 4, 5\}$, $\{5, 12, 13\}$, $\{8, 15, 17\}$, ...

30-60-90 triangle



45-45-90 triangle



General Triangles

Third side of a triangle rule: $a + b > c$ where c is the longest side.

A triangle is obtuse if $a^2 + b^2 < c^2$ where c is the longest side.

A triangle is acute if $a^2 + b^2 > c^2$ where c is the longest side.

Circles

Circumference $C = 2\pi r$
Area: $A = \pi r^2$

Inscribed and Central Angles

$m\angle APB = \frac{1}{2}m\angle AOB$

If AB is a diameter, then $\triangle APB$ is a right triangle.



length of arc $= \frac{\text{angle}}{360^\circ} \cdot 2\pi r$
area of sector $= \frac{\text{angle}}{360^\circ} \cdot \pi r^2$

Coordinate Geometry

Slope-intercept form of line:

$$y = mx + b$$

To find the y -intercept of a line:

Set $x = 0$, solve for y .

To find the x -intercept of a line:

Set $y = 0$, solve for x .

Slope formula: $m = \frac{y_2 - y_1}{x_2 - x_1}$

Slope of a horizontal line = 0
Slope of a vertical line is undefined.
Parallel lines have the same slope.
Perpendicular lines have negative reciprocal slopes, e.g. 2 and $-\frac{1}{2}$.

Midpoint Formula: $x_m = \frac{x_1 + x_2}{2}$, $y_m = \frac{y_1 + y_2}{2}$

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

Equation of a circle in the coordinate system:

$$(x - h)^2 + (y - k)^2 = r^2$$

Center (h, k)
Radius r

Given the point (x, y) , reflecting it across:

the x -axis yields: $(x, -y)$

the y -axis yields: $(-x, y)$

the origin yields: $(-x, -y)$

Quadratics

$$\left. \begin{aligned} (x + y)^2 &= x^2 + 2xy + y^2 \\ (x - y)^2 &= x^2 - 2xy + y^2 \end{aligned} \right\} \text{The perfect square formulas}$$

$$x^2 - y^2 = (x + y)(x - y) \text{ The difference of two squares}$$

FOIL = First Outside Inside Last

$$(a + b)(c + d) = \underbrace{ac}_{\text{First}} + \underbrace{ad}_{\text{Outer}} + \underbrace{bc}_{\text{Inner}} + \underbrace{bd}_{\text{Last}}$$

Quadratic Formula

The roots of the equation $ax^2 + bx + c = 0$ are $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Parabolas

Standard form of a parabola: $y = ax^2 + bx + c$

Vertex form of a parabola with vertex (h, k) : $y = a(x - h)^2 + k$

Percents

Percent of: $\frac{\text{is}}{\text{of}} = \frac{\%}{100}$

Percent greater than: $\frac{\text{new}}{\text{original}} = \frac{100 + \%}{100}$

Percent less than: $\frac{\text{new}}{\text{original}} = \frac{100 - \%}{100}$

Exponent Rules

$a^0 = 1$	$a^{-n} = \frac{1}{a^n}$	$(a^n)^m = a^{nm}$	$a^n b^n = (ab)^n$
$a^m a^n = a^{m+n}$	$\frac{a^m}{a^n} = a^{m-n}$	$a^{1/n} = \sqrt[n]{a}$	

Act Math Section Guide A Physicists Approach Guide And Practice Problems

Keith Ward



Act Math Section Guide A Physicists Approach Guide And Practice Problems:

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