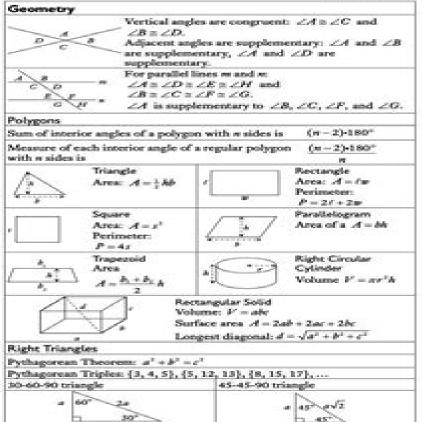
#### **ACT Math Formulas**



# General Triangles Third side of a triangle rule:

area of sector angle

ALC:

3-60\*

Third side of a triangle rule: a+b>c where c is the longest side. A triangle is obcase if  $a^{i}+b^{i}<c^{i}$  where c is the longest side. A triangle is acute if  $a^{i}+b^{i}>c^{i}$  where c is the longest side.

#### Circles

Circumference $C = 2\pi r$ Area $A = \pi r^2$	Inscribed and Central Angles  m∠APB = ½ m∠AOB  If AB is a diameter, then △APB is a right triangle.	
length of arc _ angle		

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: $m = \frac{y_1 - y_1}{x_1 - x_1}$	Slope of a wortcostal line = 0 Slope of a wortcal line is analytimal. Parallel lines have the same slope. Perpendicular lines have negative reciprocal slopes, e.g. 2 and -16	
Midpoint Formula: $x_n = \frac{x_1 + x_2}{2}$	$y_n = \frac{y_1 + y_2}{2}$	
Distance Formula: $d = \sqrt{(x_1 - x_2)}$	$-\infty Y^2 + (-\infty - \infty)^T$	
	The state of the s	
Equation of a circle in the	$(x-k)^2 + (y-k)^2 = r^2$ Center $(k, k)$ Radius $r$	
Equation of a circle in the coordinate system:	$(x-k)^{2} + (y-k)^{2} = r^{2}$ Center $(h, k)$ Radius $r$	
Equation of a circle in the coordinate system:  Given the point (x, y), reflecti	$(x-k)^{2} + (y-k)^{2} = r^{2}$ Center $(h, k)$ Radius $r$	
Equation of a circle in the coordinate system:  Given the point (x, y), reflects the x-axis yields: the y-axis yields:	$(x-k)^{2} + (y-k)^{2} = r^{2}$ Center $(k, k)$ Radius $r$ ng it across:	

Quadratics	
	$\begin{bmatrix} x^2 + 2xy + y^2 \\ x^2 - 2xy + y^2 \end{bmatrix}$ The perfect square formulas
	(x + y)(x - y) The difference of two squares
FOIL - First Outsid	
(a+b)(c-	+d)=g=+gt+b=+bt

The roots of the equation ##' + #	r+c=0 are x= -0.1 No -0.00
Parabolas	
Standard form of a parabola: y=	$ax^3 + bx + c$

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

Percents	Q. 16		
Percent of:	$\frac{is}{of} = \frac{\pi}{100}$		
Percent greater than:	new = 100 + % original 100	Percent less than:	new 100-%

Exponent Rules			
a* -1	$a^{-r} = \frac{1}{a^r}$	$(a^*)' = a^*$	$a^{\mu}b^{\mu} = (ab)^{\mu}$
$a^*a^*=a^{*-p}$	$\frac{d^2}{d^2} = d^{2-\beta}$	$a^{int} = 4\sqrt{a}$	

# **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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