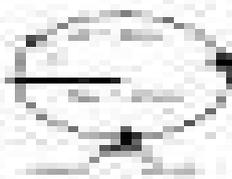


Mathematics: Equations (II)

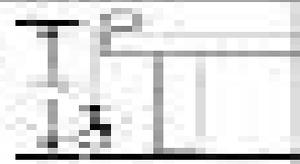
Equation of a Circle

Write the equation of a circle with center (h, k) and radius r .
Standard form: $(x - h)^2 + (y - k)^2 = r^2$
General form: $x^2 + y^2 + Dx + Ey + F = 0$



Example: Circle with center $(3, 4)$ and radius 5 .
Equation: $(x - 3)^2 + (y - 4)^2 = 25$

Find the center and radius of the circle given by the equation:
 $x^2 + y^2 - 6x + 8y - 11 = 0$



Graphing a Circle

Graph the circle with center $(-2, 1)$ and radius 3 .



Equation of a Line

Write the equation of the line passing through the points $(1, 2)$ and $(3, 4)$.

Step 1: Find the slope m .
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - 2}{3 - 1} = 1$



Step 2: Use the point-slope form.
Using point $(1, 2)$: $y - 2 = 1(x - 1)$
Simplify: $y - 2 = x - 1$
Slope-intercept form: $y = x + 1$



Area of a Triangle

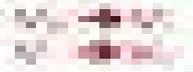
Find the area of a triangle with base 10 and height 6 .

Area of a Rectangle

Area of a Square

Find the area of a square with side length 5 .

Area of a Triangle	$A = \frac{1}{2}bh$
Area of a Rectangle	$A = lw$
Area of a Square	$A = s^2$
Area of a Circle	$A = \pi r^2$
Area of a Parallelogram	$A = bh$



Example: Find the area of a triangle with base 10 and height 6 .

$A = \frac{1}{2}bh = \frac{1}{2}(10)(6) = 30$

Example: Find the area of a square with side length 5 .

$A = s^2 = 5^2 = 25$

Example 1: Find the area of a triangle with base 8 and height 5 .

$A = \frac{1}{2}bh = \frac{1}{2}(8)(5) = 20$

Example 2: Find the area of a square with side length 4 .

$A = s^2 = 4^2 = 16$

Example 3: Find the area of a rectangle with length 12 and width 7 .

$A = lw = (12)(7) = 84$

Example 4: Find the area of a circle with radius 3 .

$A = \pi r^2 = \pi(3)^2 = 9\pi$

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