

Name _____

Period _____

Score	%	/10

Sec1H

HW 5-5

Applications of Distance Formula

1. Calculate each side length of Triangle ABC and find the perimeter.

$A(-3,4)$, $B(2,6)$, $C(4,-1)$

Side Lengths: AB _____

BC _____

CA _____

Perimeter _____

2. Calculate each side length of Rectangle ABCD and find the area.

$A(-3,4)$, $B(1,6)$, $C(9,0)$, $D(5,-4)$

Side Lengths: AB _____

BC _____

CD _____

DA _____

Area _____

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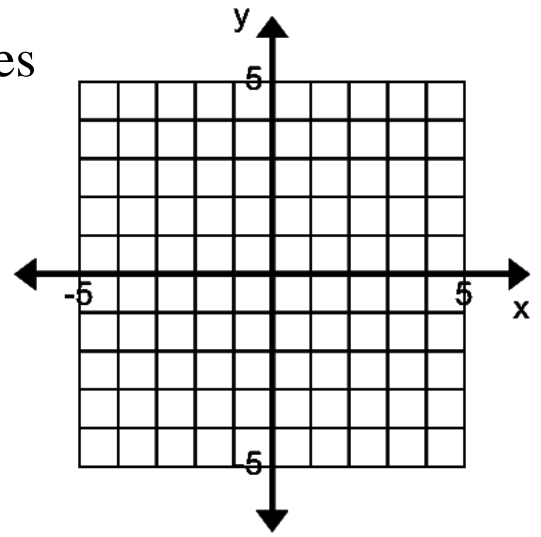
BC _____

CD _____

DA _____

Area _____

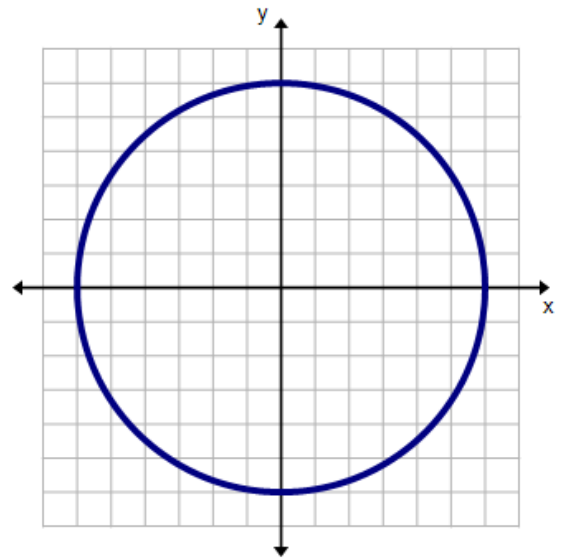
3. Find the area of a triangle with vertices $A(-1,4)$, $B(4,2)$, $C(1,-3)$



4. Determine if the following points are on a circle with radius 6 and centered at the origin.

a. $(3, -5)$

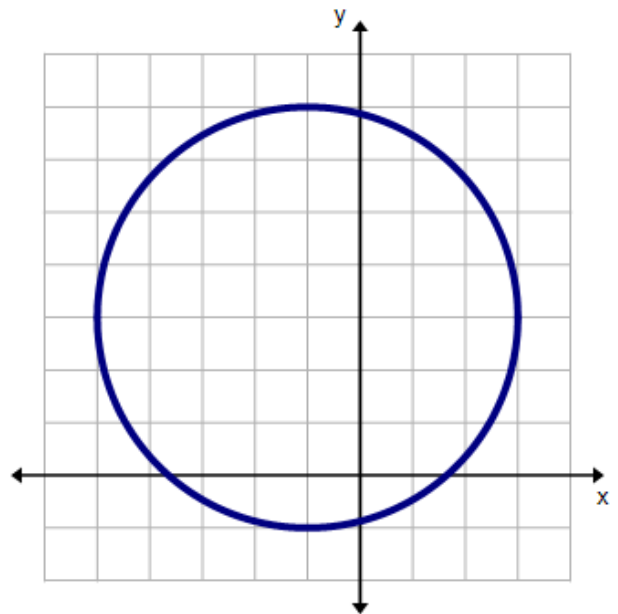
b. $(2\sqrt{3}, 2\sqrt{6})$



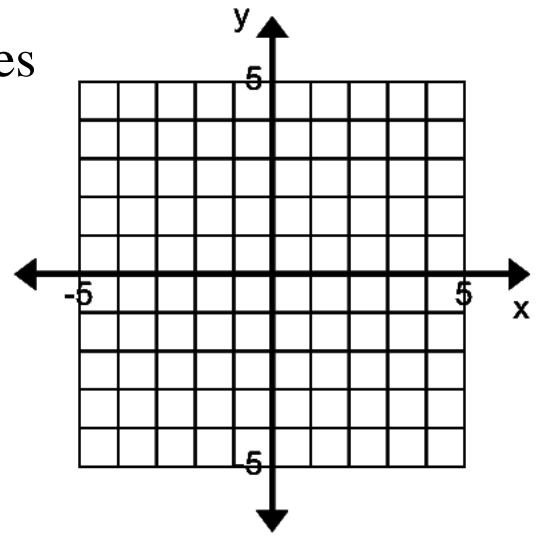
5. Determine if the following points are on a circle with radius 4 and centered at $(-1, 3)$.

a. $(1.5, 6)$

b. $(-4, 3\sqrt{3})$



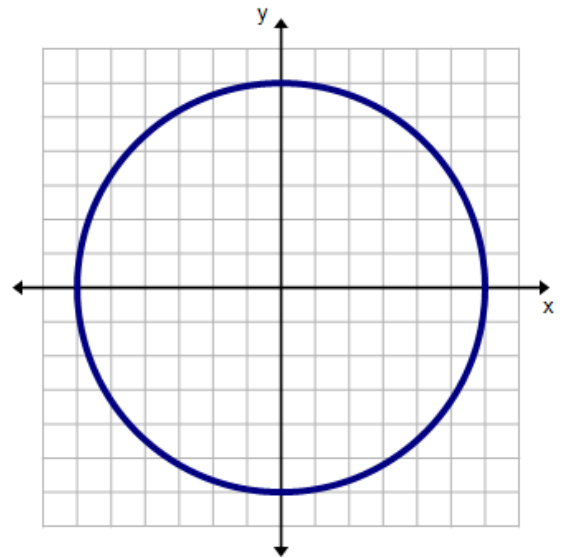
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