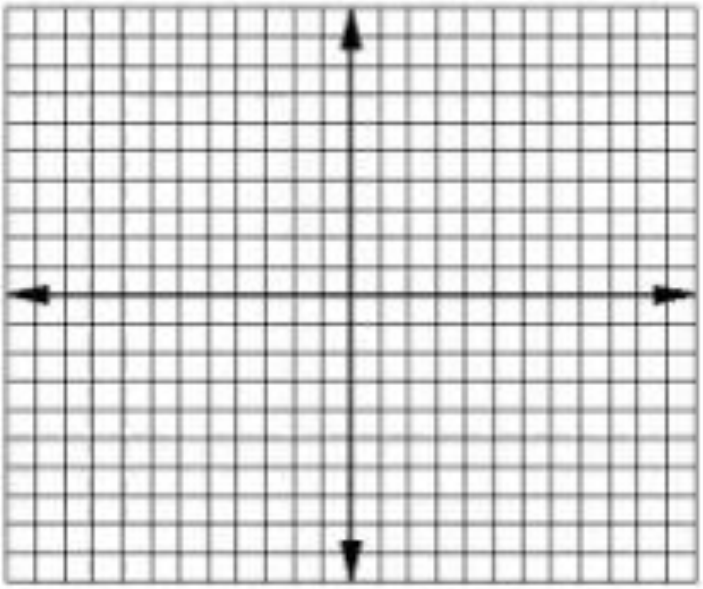
Math 132 – Trigonometry Name_____
Section 1.2 Video Worksheet – 9th Edition

Intercepts, Symmetry, and Circles

Intercepts
x-intercepts: (a, ___)
y-intercepts: (___, b)

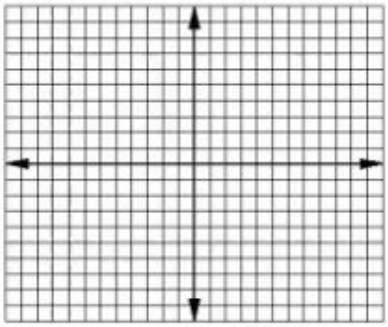
Please solve for x and y intercepts and graph, including the example from the video

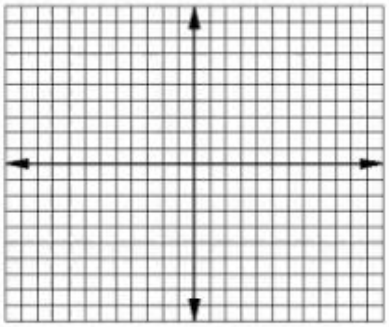
Ex.) $y = x^2 - 9$

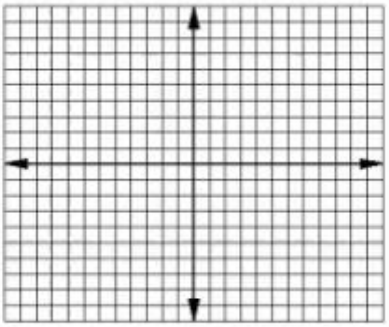


- $6 = 2x + 3y$
- $9x^2 + 4y = 36$
- $4x^2 + y = 4$

Draw and Label Symmetries







Please fill in the blanks

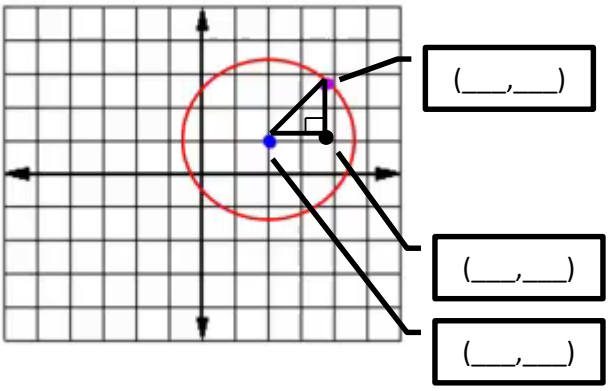
$r^2 = \sqrt{\_\_\_\_\_}$

Standard Form

_____

General Form

_____



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Section 1.2 Video Worksheet – 9th Edition
Define a Unit Circle

Practice

Calculate the intercepts and indicate symmetry

- $y^2 = x + 4$
- $x^2 - y - 4 = 0$
- $y = x^3 - 2kv$

Write the standard and general forms for each of the given problems

- $R = 2$ $(h,k) = (0,0)$
- $R = 4$ $(h,k) = (2,-3)$
- $R = 1/2$ $(h,k) = (0, -1/2)$
- $R = 7$ $(h,k) = (-5,-2)$

Find the center and radius of each circle

- $3(x+1)^2 + 3(y-1)^2 = 6$
- $x^2 + y^2 - 2x - 4y - 4$
- $2x^2 + 8x + 2y^2 = 0$