

Practice for Q3Exam2

Worksheet 1

Date_____ Period_____

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Use the information provided to write the standard form equation of each circle.

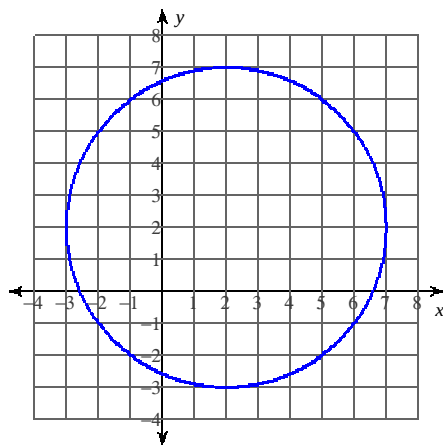
1) $x^2 + y^2 - 14x - 18y + 81 = 0$

2) $x^2 + y^2 - 20x - 2y + 65 = 0$

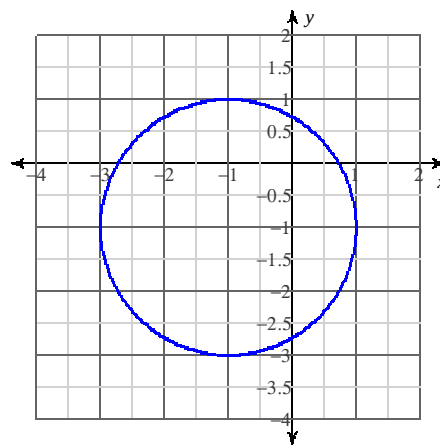
3) Ends of a diameter: $(2, -16)$ and $(12, 4)$

4) Ends of a diameter: $(-5, -7)$ and $(-9, 7)$

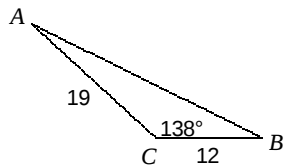
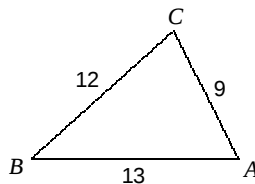
5)



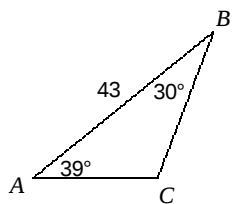
6)

**Find each measurement indicated. Round your answers to the nearest tenth.**

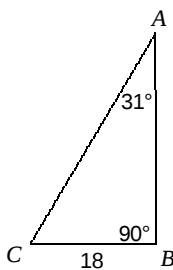
7) Find AB

8) Find $m\angle A$ 

9) Find AC



10) Find AC



11) What tools would you use to solve a right triangle?

12) What tools would you use to solve any SAS triangle?

13) What tools would you use to solve any AAS triangle?

Solve each equation with the quadratic formula.

14) $2v^2 - 7v = 85$

15) $5x^2 - 10 = -3x$

Answers to Practice for Q3Exam2 (ID: 1)

- 1) $(x - 7)^2 + (y - 9)^2 = 49$ 2) $(x - 10)^2 + (y - 1)^2 = 36$ 3) $(x - 7)^2 + (y + 6)^2 = 125$
 4) $(x + 7)^2 + y^2 = 53$ 5) $(x - 2)^2 + (y - 2)^2 = 25$ 6) $(x + 1)^2 + (y + 1)^2 = 4$
 7) 29 8) 63° 9) 23 10) 34.9
 11) The Pythagorean Theorem and the Sin, Cos, or Tan.
 12) The Law of Cosines 13) The Law of Sines 14) $\left\{ \frac{17}{2}, -5 \right\}$
 15) $\left\{ \frac{-3 + \sqrt{209}}{10}, \frac{-3 - \sqrt{209}}{10} \right\}$