GQ: How do we define a circle with an equation?

CCSS: HSG.GPE.A1 Geometry & equations of conics 11.2 Thursday 26 March

Do Now: Point-slope assessment; answer by Zoom private message

1. What is the slope of $y = \frac{3}{2}x + 5$?
2. Find the y-intercept of $4x - y = 7$
3. Identify a point on the line $y - 3 = \frac{1}{2}(x + 1)$ as an ordered pair
4. Identify a point on the line $y = \frac{1}{2}x + 6$ as an ordered pair
5. Find the equation of the line with slope 2 through $(-4, 9)$

Lesson: Finding the center and radius of a circle given its equation
Video, Desmos discussion; Deltamath classwork "Circle Equations"
Extra credit: Deltamath "System of Equations of Circle/Line (L1)"

Daily practice: Khan Academy triangle & parallelogram areas

GQ: How do we define a circle with an equation?

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Do Now: Point-slope assessment; Answers

1. What is the slope of $y = \frac{3}{2}x + 5$? Answer $\frac{3}{2}$
2. Find the y-intercept of $4x - y = 7$ Answer -7
3. Identify a point on the line $y - 3 = \frac{1}{2}(x + 1)$ as an ordered pair
   Answer $(-1, 3)$
4. Identify a point on the line $y = \frac{1}{2}x + 6$ as an ordered pair
   $(0, 6)$, the y-intercept; others: $(2, 7)$, $(3, 8)$, etc
5. Find the equation of the line with slope 2 through $(-4, 9)$
   Answer: $y - 9 = 2(x + 4)$