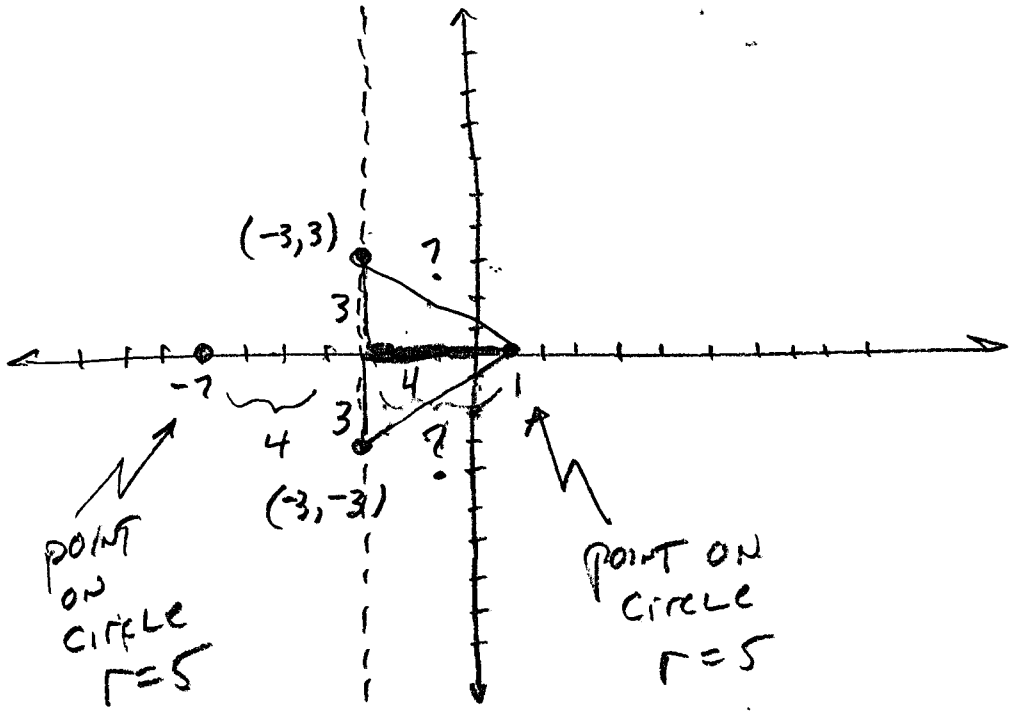
Algebra 2 | Tues. 3-5-13 | Class Notes

Another (easier) way to look at this... Count grid units.

4/12 (57)



Also: 3, 4, 5

5, 12, 13

8, 15, 16

Knows these Pythagorean Trioles.

4/12

(33) What is the 7th term of the geometric sequence

1, -2, 4, -8, ...

$a_N = a_1 r^{N-1}$

$a_7 = (1)(-2)^6$

$a_7 = 64$

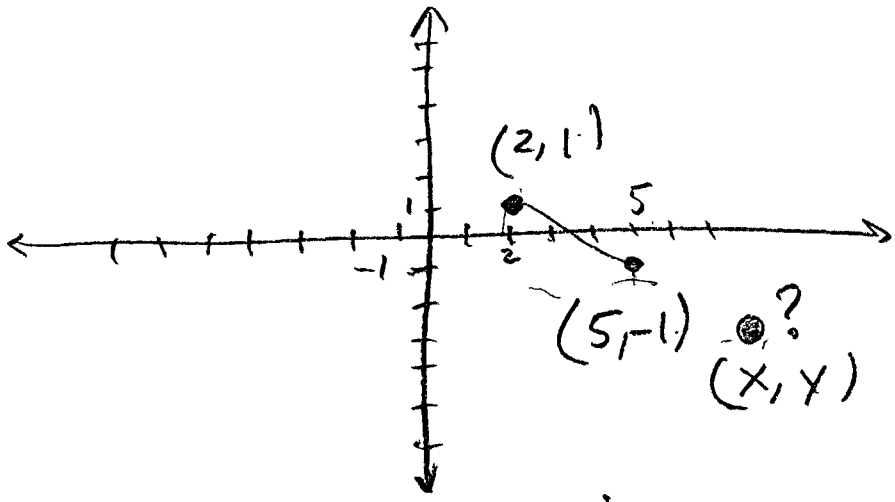
12/11 (53) $y = 3\sin(2x)$ Amp, period ? (radians)

Amp = 3

per = π rad

12/11

(41) A (2, 1) on circle, Center at (5, -1) What are the coordinates of the other end of the diameter through A?



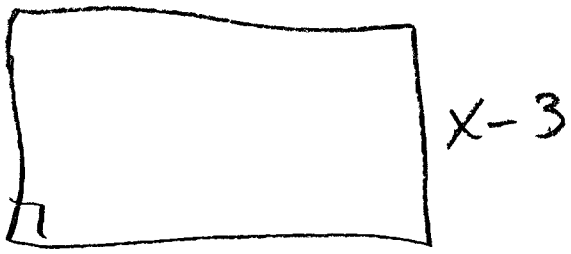
$M \Rightarrow \left(\frac{X_1+X_2}{2}, \frac{Y_1+Y_2}{2}\right)$

$\frac{X+2}{2} = 5$ | $\frac{Y+1}{2} = -1$

$X+2 = 10$ | $Y+1 = -2$

$X = 8$ | $Y = -3$

12/11
(37)



Algebra Expression for Perimeter

$2(x-3)+2(x+5)$

$2x-6+2x+10$

$\boxed{4x+4}$

12/11
(10) $|-9|-|7-42|=?$

$9-35=\boxed{-26}$

6/11 (24) $\frac{4c}{5} - \frac{1}{2} = -\frac{25}{2}$

$\boxed{c = -15}$

6/11 (16) $f(x) = |x|^3 - 1 \quad f(-1)$

$|(-1)|^3 - 1$

$1^3 - 1 = \boxed{0}$

6/11 (3) $r = 8,\ b = 3,\ g = -5$

$(r + b - g)(b + g) = ?$

$(16)(-2) = \boxed{-32}$

6/11 (45) $y = x^2$ shifted 5 units down, 4 units right. New equation?

$y = (x-h)^2 + k$

$y = (x-4)^2 - 5$

6/11 (33) $x^2 + y^2 = 100$ EOC

At what 2 points does the circle intersect the X axis?

$(10,0), (-10,0)$