Today's Plan:

Learning Target (standard): I will review polar coordinates & graphing polar equations.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work and take a guiz over the polar coordinate system.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide quiz problems over the polar coordinate system.

Assessment: Board work, homework check and quiz

Differentiation: Students will work at the board, go over and correct homework at their seats and actively engage in quiz problems.

Polar Coordinates Review $8)\left(3,\frac{11\pi}{6}\right)$ *QUIZ Today*

$$(3)(-3,90^{\circ}),(3,-90^{\circ}),(3,270^{\circ})$$

$$4)\left(4,\frac{5\pi}{6}\right),\left(4,-\frac{7\pi}{6}\right),\left(-4,\frac{11\pi}{6}\right)$$

$$5)(-\sqrt{3},-1)$$

$$5)\left(-\sqrt{3},-1\right)$$
$$6)\left(-2\sqrt{2},2\sqrt{2}\right)$$

$$(7)\left(1,\frac{3\pi}{4}\right)$$

$$8)\left(3,\frac{11\pi}{6}\right)$$

$$9)r = -4\cos\theta$$

$$10)r = -2\cos\theta + 2\sin\theta$$

$$11)y = \frac{1}{4}x^2$$

$$12)(x-1)^2 + y^2 = 1$$

- 13) limacon with inner loop
- 14) rose with 3 petals

Graph the polar equation. $r = 6\cos(2\theta)$ θ 63 6 0 π 7π $\frac{\pi}{6}$ 6 $\frac{\pi}{4}$ 5π 4 $\frac{\pi}{3}$ 4π 3 $\frac{\pi}{2}$ 3π 2 2π 5π 3 3 7π 3π 4 4 5π 11π 6 6 6 2π π