Precalc 10.7-10.8

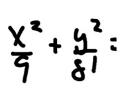
Find the equations of conic sections that have been translated or rotated Graph transformations of conic sections
Use the discriminant to identify conic sections
Find the angle of rotation for a given equation
Graph and solve systems of second degree equations and inequalities

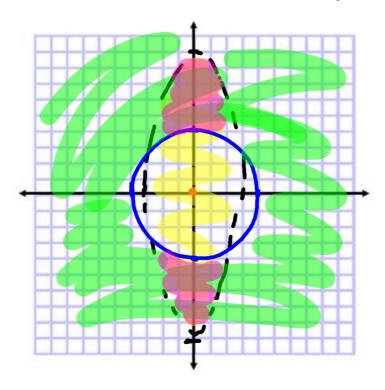
Quiz 10.7-10.8 is tomorrow

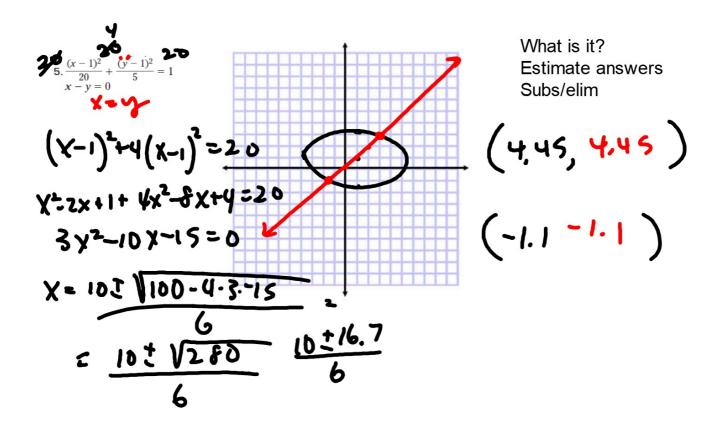
15.
$$4x^{2}+y^{2}=25$$
 $-1=2x+y$ $-2x-1$
 $4x^{2}+(-2x-1)^{2}=25$ $-2x-1=y$ $\frac{-2x-1}{2x+1}$
 $4x^{2}+(4x^{2}+4x+1)=25$ $4x^{2}+4x-24=0$

17.
$$X-y=0$$
 $(x-1)^2-y^2=1$
 $X=y$ 9 $(x-1)^2-9$, $y=9$, $y=-1$, $y=9$
 $(x-1)^2-9$, $y=9$, $y=-1$, $y=9$, $y=-1$, $y=9$, $y=-1$, $y=9$, $y=-1$, $y=9$,

 $\frac{4}{9x^{2}} y^{2} < 81-9x^{2}$ $\frac{16 \le 0+8}{16 \le x^{24}y^{2}}$ $\frac{9x^{2}+}{81}$ $\frac{7}{81}$







$$7.9x^{2} - 4y^{2} = 36$$

$$x^{2} + y^{2} = 4$$

$$4x^{2} + 4y^{2} = 52$$

$$13$$

$$13$$

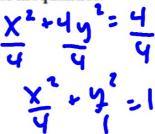
$$x^{2} = 4$$

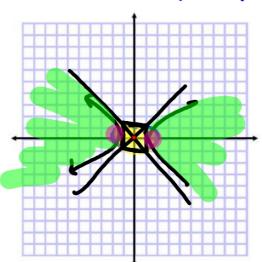
$$x = \pm 2$$

Graph the solutions for the system of inequalities. $3 + 46^2 \le 4$ 5 > 5 + 1

$$x^3 + 46^2 \le 4$$

 $x^3 > y^3 + 1$





Boundary: solid/open Test point:

inside/outside

WB 10.8