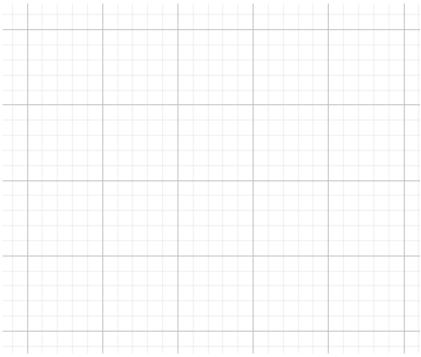
Quiz 12 A

1. Given a circle C_1 : $(x-5)^2+y^2=10$ and a point P(8,-1) on C_1 , if another circle C_2 with radius of $2\sqrt{10}$ intersects C_1 at exactly one point P. Find all possible equations of C_2

2. Graph both C_1 and C_2 on the same coordinate plane.

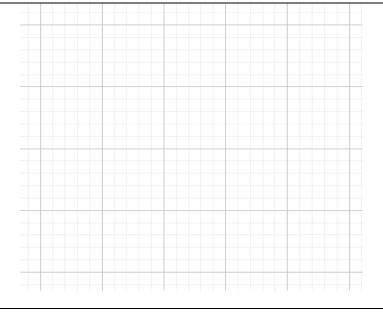


3. Find the standard form of a parabola with

directrix $y = -\frac{2}{3}$ and the coordinates of focus

$$\left(\frac{3}{4},\frac{5}{6}\right)$$

4. Graph the parabola from questions 3 and find the x and y intercepts



5. Given $T: y^2 - 4x + 8y = -28$, find all possible tangent lines of the T pass through (0,-2)

6. Given $C:(x-3)^2+(y+3)^2=26$ and a point P(8,-2) on the circle, find the coordinate of a point Q (also on C) so that the distance from the center of the circle to the chord \overline{PQ} is $2\sqrt{2}$