

$$5. C: (3, 0) \text{ and } r=6$$

$$(x-3)^2 + y^2 = 36$$

$$7. C: (-2, -5) \text{ and } (-10, -20)$$

$$(x+2)^2 + (y+5)^2 = 289$$

$$10. x^2 + y^2 = 100 \text{ and } (8, 6)$$

$$y = \frac{-4}{3}x + \frac{50}{3}$$

$$11. (x+6)^2 + (y+4)^2 = 25$$

$$\text{and } (-9, -8)$$

$$y = \frac{-3}{4}x - \frac{59}{4}$$

$$12. C: (3, 2) \text{ and } r=7$$

$$(x-3)^2 + (y-2)^2 = 49$$

$$13. C: (5, 1) \text{ and } r=10$$

$$(x-5)^2 + (y-1)^2 = 100$$

$$14. C: (10, -2) \text{ and } r=7$$

$$x^2 + (y+2)^2 = 49$$

$$15. C: (-4, 2) \text{ and } r=8$$

$$(x+4)^2 + (y-2)^2 = 64$$

$$16. C: (12, -3) \text{ and } (-12, 7)$$

$$(x-12)^2 + (y+3)^2 = 676$$

$$17. C: (-6, -4) \text{ and } (-2, -1)$$

$$(x+6)^2 + (y+4)^2 = 25$$

2)

15. vertex: (5,0) CV: (0,-2)

$$\frac{x^2}{25} + \frac{y^2}{4} = 1$$

16. CV: (0,-8) F: (6,0)

$$\frac{x^2}{100} + \frac{y^2}{64} = 1$$

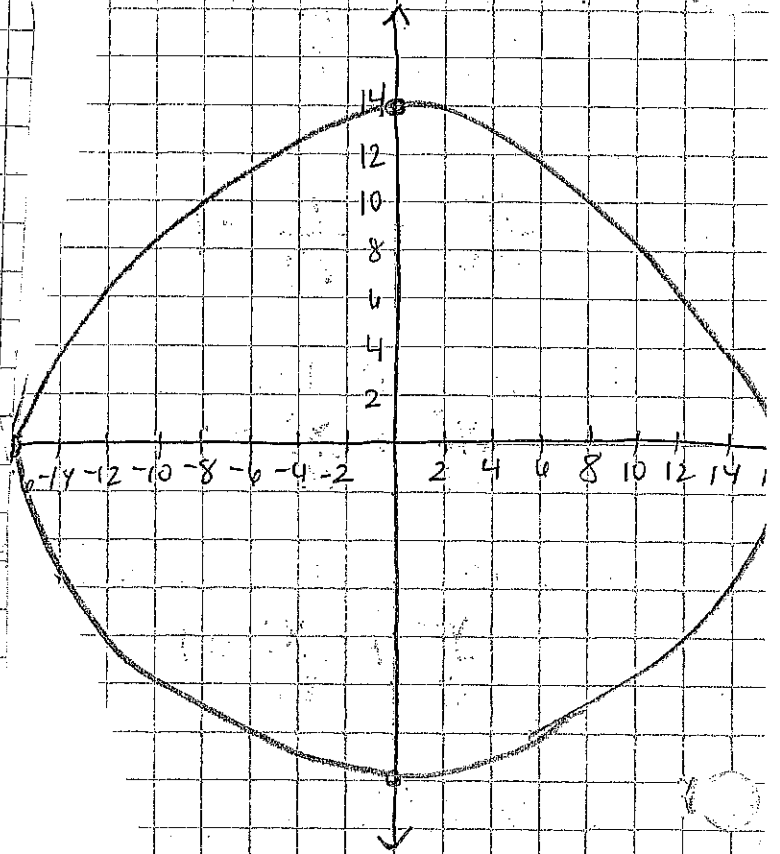
17. CV: (4,0) F: (10,-3)

$$\frac{y^2}{25} + \frac{x^2}{16} = 1$$

18. V: (0,-9) F: (10, 3\sqrt{5})

$$\frac{y^2}{81} + \frac{x^2}{36} = 1$$

21. $\frac{x^2}{256} + \frac{y^2}{196} = 1$



22. $\frac{x^2}{225} + \frac{y^2}{289} = 1$

