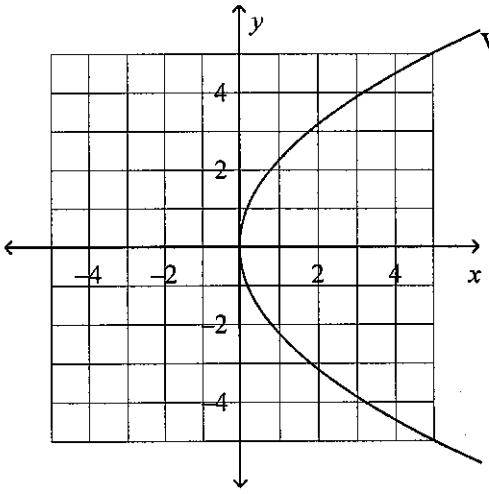
Algebra II Chapter 10 Assessment REVIEW

Answer Section

1. Vertex (0,0) focus (0, –5), directrix at $y = 5$

2. 

V: (0,0) F: (3,0) D: x = -3

3. $x = -\frac{1}{20}y^2$

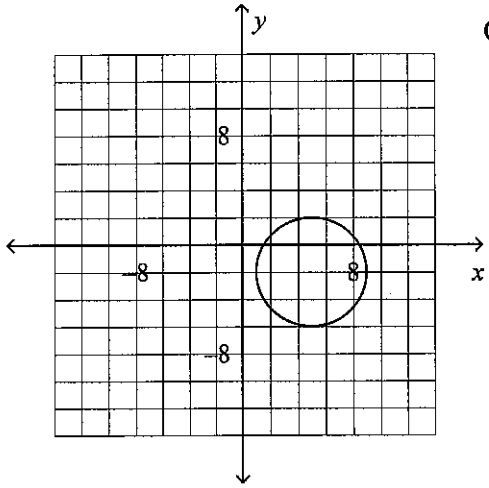
4. $y = -\frac{1}{28}x^2$

5. $(x+6)^2 + (y-7)^2 = 25$

6. $(x-4)^2 + (y+8)^2 = 9$

7. $(x+1)^2 + (y+3)^2 = 4$

8. C: (-3,0) r = 2

9. 

C: (5,-2) r = 4

10. $(x+5)^2 + (y-2)^2 = 36$; center (–5, 2); radius = 6

11. $\frac{x^2}{16} + \frac{y^2}{9} = 1$

12. $\frac{x^2}{64} + \frac{y^2}{121} = 1$

13. F: (0,0) V: (0,5) (0,-5) Co-V: (-4,0) (4,0) F: (0,3) (0,-3)

14. C: (0,0) V: (-5,0) (5,0) Co-v:(0,3) (0,-3) F: (-4,0) (4,0)

15. C: (-4,3) V: (-4,6) (-4, 0) Co-V: (-6,3) ,(-2,3) F: (-4, $3+\sqrt{5}$) (-4, $3-\sqrt{5}$)

16. $\frac{x^2}{4} + \frac{y^2}{16} = 1$

17. C: (0,0) V: (-6,0) (6,0) F: ($\sqrt{61}$, 0) ($-\sqrt{61}$,0)

18. C: (0,0) V: (0,8) (0,-8) F: (0,$\sqrt{113}$) (0,$-\sqrt{113}$)

19. C: (2,-4) V: (-3,-4) (7,-4) F: ($2+\sqrt{41}$, -4) ($2-\sqrt{41}$, -4)

20. $\frac{x^2}{430,336} - \frac{y^2}{337,040} = 1$

21. $y = \frac{1}{28}x^2$

22. $\frac{x^2}{1369} + \frac{y^2}{729} = 1$