**Answers for select problems – WS p548-549**

5) c(0, 0) v(0, 3), (0, -3) cv(2, 0), (-2, 0) f(0, ±)

6) c(4, -6) v(8, -6), (0, -6) cv(4, -9), (4, -3) f(4±, -6)

9) c(0, -9) v(0, -17), (0, -1) cv(4, -9), (-4, -9) f(0, -9±)

10) c(-10, 9) v(-25, 9), (5, 9) cv(-10, 17), (-10, 1) f(-10±, 9)

14) 

18) 

 c(1, -2) v(1, -5), (1, 1) cv(3, -2), (-1, -2) f(1, 2±)

19) 

 c(3, 1) v(3, 4), (3, -2) cv(5, 1), (1, 1) f(3, 1±)

20) Notice this is a circle because a = b. (x – 1)2 + (y – 1)2 = 8 c(1, 1) r = 

21) 

 c(7, -6) v(10, -6), (4, -6) cv(7, -4), (7, -8) f(7±, -6)

22) 

 c(4, 2) v(4, 2±3) cv(4±) f(4, 2±)

23)  24) 

25)  26) 

29) Ellipse – two squared variables, addition, a ≠ b

30) Parabola – 1 squared variable

31) Parabola – 1 squared variable

32) Circle - two squared variables, addition, a = b

33) Ellipse – two squared variables, addition, a ≠ b

34) Circle - two squared variables, addition, a = b

35) 

37) Standard form: 

 General form: 49x2 + 9y2 + 294x -126y + 881 = 0

42) Inscribed: x2 + y2 = 4 Circumscribed: x2 + y2 = 9