AP Calculus ABBC
Chapter 9 Syllabus*

Day	Date	Description	Homework
1		9.2 Parametric Equations	• p. 650 (1, 3, 9, 13, 17, 23, 25, 66, 79) - *State the domain and range for all problems* • SET A
2		9.3 Parametric Equations	• p. 657 (7, 9, 21c, 31, 43, 49*, 88, 89) - **Set up and then use your calculator to calculate arc length.*
3		**Quiz 9.2-.9.3** 9.4 Polar Coordinates and Graphs – *plotting polar coordinates, converting coordinates and equations, polar graphs*	• p. 668 (1, 3, 5, 11, 17, 23, 27, 29, 33-41 odd) • Polar Graphs WKST
4		9.4 Polar Coordinates and Graphs – *slope, periods*	• p. 668 (43-49 odd, 63, 71) • p. 677 (59, 63) - *Set up and then use your calculator to calculate arc length.* • FR 2a, 3abc, 5ac
5		**Quiz: 9.4** 9.5 Polar Area – *area bounded by one curve*	• P. 676 (3, 7-15 odd, 19-25 odd) - *Set up and then use your calculator to integrate.*
6		9.5 Polar Area – *intersections, arc length, area bounded by two curves*	• P. 676 (27, 29, 31, 37-43 odd, 77, 78) - *Set up and then use your calculator to integrate.* • FR 7
7		9.5 Polar Area	• p. 670 (107, 108) • Polar Area WKST • FR 4, 5b, 6, 18
8		**Quiz: 9.5** 9.7-9.8 Vector-Valued Functions	• p. 693 (2, 3, 7a&b, 9, 11, 17, 31, 32, 33, 77, 99, 100) • p. 700 (3, 6, 13b, 37, 38)
9		Vector APs - FR 8c, 10, 14, 17,	• FR 11, 12, 13, 16 •
10		**Quiz: Vectors**	• Ch 9 Review WKST • PRINT: Ch 9 MC
11		Ch 9 Review	• Ch 9 MC • FR 9, 15
12		**Ch 9 Test**	

*Syllabus subject to change

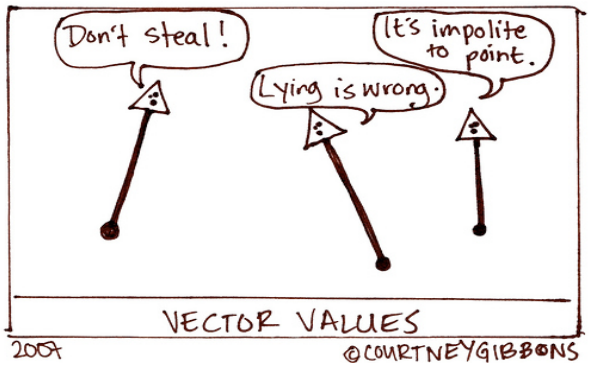
Set A

Find all asymptotes for each set of parametric equations.

a) $x=\sqrt{t}, \quad y=\dfrac{1}{t}$

b) $x=\ln t, \quad y=t$

c) $x=\dfrac{t+2}{t^2-1}, \quad y=t-4$



SET A Answers *a) x=0, y=0* *b) y=0* *c) x=0, y=-5, y=-3*

P. 650 (Domain and Range)

1. Domain $(-\infty,\infty)$
   Range $(-\infty,\infty)$

3. Domain $(-\infty,\infty)$
   Range $[0,\infty)$

9. Domain $\{x \mid x \neq 0\}$
   Range $\{y \mid y \neq 1\}$

13. Domain $(0,\infty)$
    Range $(1,\infty)$

17. Domain [-8, 8]
    Range [-8, 8]

23. Domain [2, 6]
    Range [-2, 0]

25. Domain $(-\infty,4]\cup[4,\infty)$
    Range $(-\infty,\infty)$