# HW #14: SHOW ALL WORK on a separate piece of paper
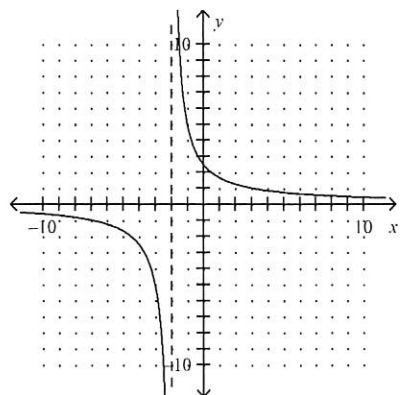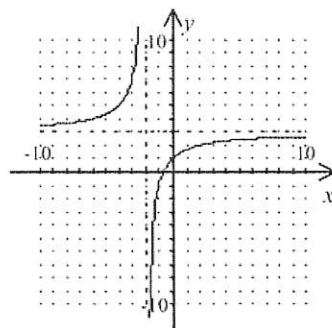## Answer Section

1.



2.



3. $f(x) = \dfrac{16}{2x-5} + 4$

4. $f(x) = \dfrac{2}{3x-1} + 2$

5. $\dfrac{x+1}{(x+3)(2x+3)}$

6. $\dfrac{x+5}{x+8}$

7. $\dfrac{1}{(x-2)^2}$

8. $\dfrac{1}{x-5}$

9. $\dfrac{4}{x+3}$

10. 2

11. $2x$

12. $(x+4)(x-3)$

13. $\dfrac{3}{x^2-2x}$

14. $\dfrac{2(x+3)}{15}$

15. $\dfrac{1}{4}$

16. $\dfrac{10xy+15x}{15y+x^2y}$

17. $x^2 + 4x - 6$

18. $-1, 6$

19. $-4$ (7 is extraneous)

20. 5

21. $-1$; (1 is extraneous)

22. $3, -2$

23. $\dfrac{5}{2}, 3$