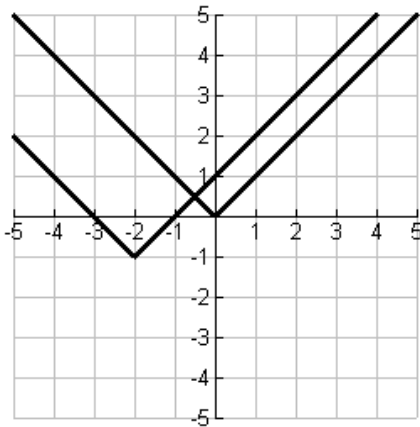
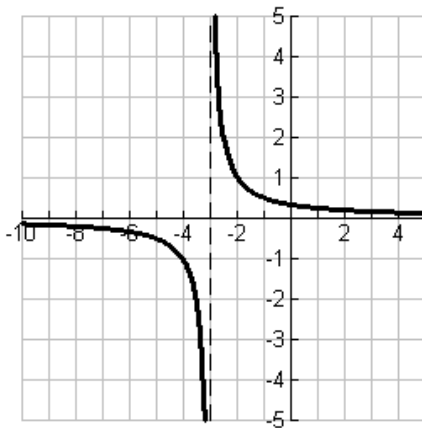


Problem Set 21

2.



4.



6. $\frac{\ln x}{\ln 3}$

8. $-2x$

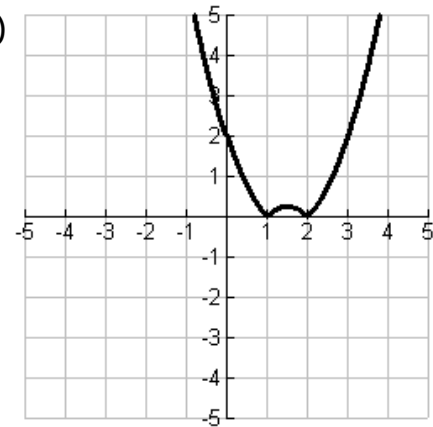
10. $y_1 = \sqrt{(1 - x^2/4)}, y_2 = -y_1$

12. e^{x^2}

14. DNE

16. $-\frac{3}{2}$

18. a)



b) increasing: $\left(1, \frac{3}{2}\right), (2, \infty)$

20. max: (1.5, .25)

22. $\cos A = \frac{4}{5}, \cos B = \frac{3}{5}$

24. 64