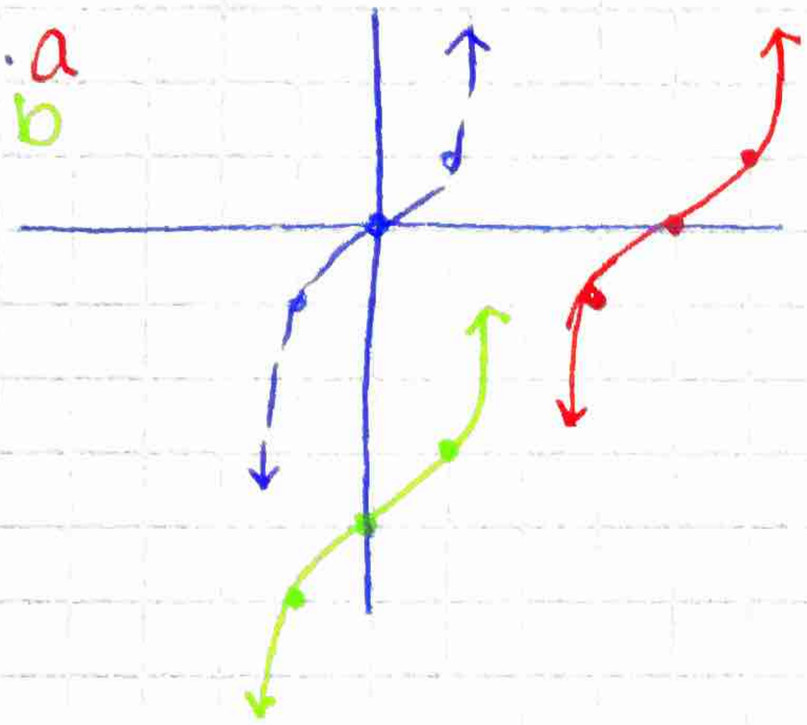
HW 56

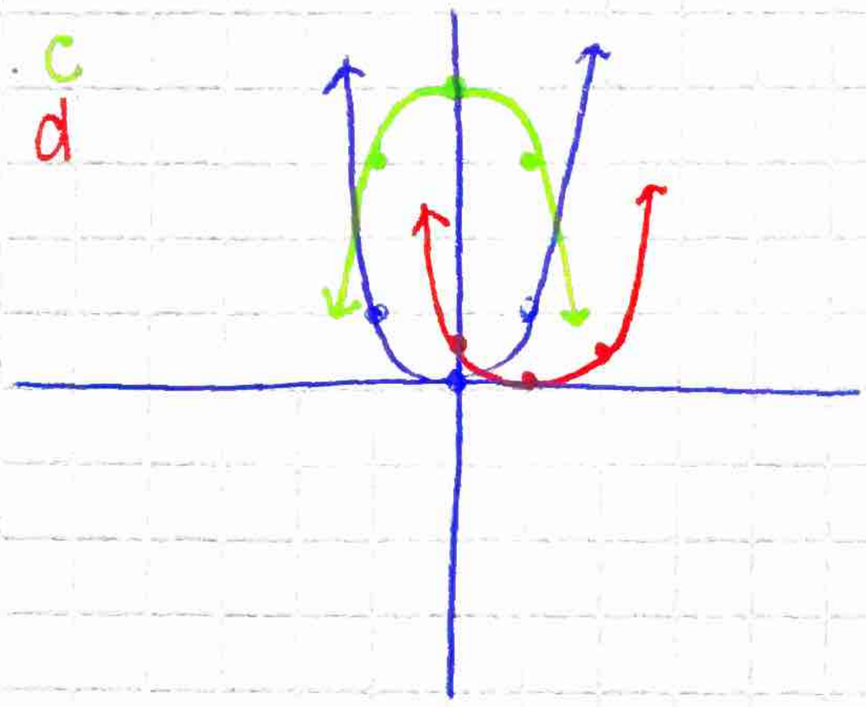
p279

9. C
10. G
11. H
12. F
13. A
14. E
15. D
16. B

17. a
b

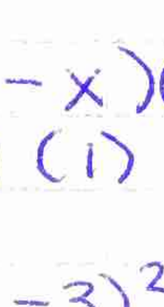


19. c
d

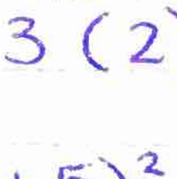


23. LC: -3
D: 2

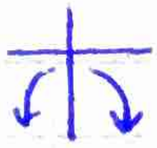
~~24~~ 25. LC: -2.1
D: 5



27. LC: -5
D: 3



29. LC: -3/4
D: 2



35. $y = (x-6)(x+6)$ T: 1
$x = 6$ (1) $x = -6$ (1)

36. $y = (9-x)(9+x)$ T: 1
$x = 9$ (1) $x = -9$ (1)

37. $y = (x-3)^2$ T: 1
$x = 3$ (2)

38. $y = (x+5)^2$ T: 1
$x = -5$ (2)

39. $y = 1/3\,(x^2 + x - 2)$ T: 1
$y = 1/3\,(x+2)(x-1)$
$x = -2$ (1) $x = 1$ (1)

~~40. $y = 2(x^2 + 5x + 3)$~~
~~$y = 2(x+3)$~~

41. $y = 3x(x^2 + -4x + 1)$ T: 2
$x = 0$ (1)

$$x = \frac{4 \pm \sqrt{16-4(1)}}{2}$$

$x = \frac{4 \pm \sqrt{12}}{2}$ $x = 2 \pm \sqrt{3}$ (1)

44. $y = x^2(x^2 - x - 30)$ T: 3

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

$x = 0$ (2) $x = 6$ (1) $x = -5$ (1)

48. $2(x^4 - x^2 - 20)$ T: 3

$y = 2(x^2 - 5)(x^2 + 4)$

$x = \pm\sqrt{5}$ (1) $x = \pm 2i$

65. $y = (x+3)^2$

67. $y = (x+5)(x)(x-1)$

69. $y = x(x - \sqrt{3})(x + \sqrt{3})$

71. $y = (x+5)^2(x-1)(x-2)$

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