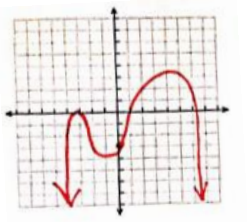
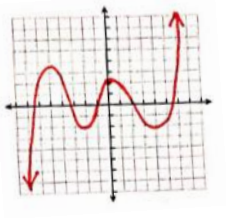
Secondary Math III **Unit 3 Review KEY**

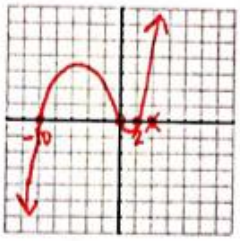
1. B
2. C
3. B
4. A
5. Reflect across x axis, up 5
6. Neither
7. $378\ in.^3$
8. a. Even b. Neither
9. a. (answers may vary) b. (answers may vary)

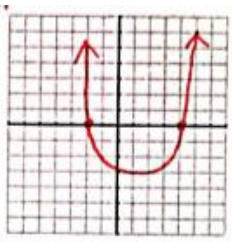




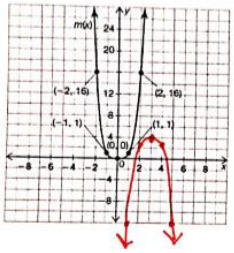
10. a. ↓↓ b. ↓↑
11. a. zeros: 0, -10, 2
    multiplicity: 1, 1, 1
    end behavior: ↓↑

    b. zeros: 4, -2
    multiplicity: 1, 1
    end behavior: ↑↑





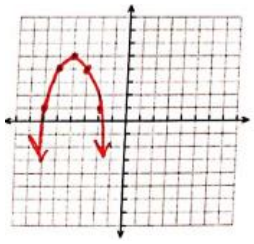
12. a. reflect across x axis, right 3, up 4
    b. (3,4) (4,3) (5,-12)
    c. Neither



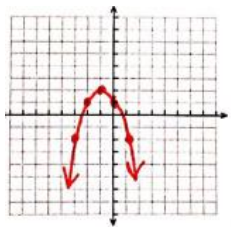
13. a. $1 \pm 2i$ b. $3 \pm \sqrt{7}$
14. a. Vertex: (-4,5)

    Point 1: (-3,4) or (-2,1)

    Point 2: (-5,4) or (-6,1)



    b. Vertex: (-1,2)

    Point 1: (0,1) or (1,-2)

    Point 2: (-2,1) or (-3,-2)