

Using matrices, find the equation of the parabola given 3 points on it in the form

$$y = ax^2 + bx + c$$

1. (0, 1) (3, 67) (-2, 37)

2. (-1, -4) (0, -5) (2, 17)

3. (3, 4) (-2, 5) (-2, 4)

4. (-2, 31) (1, 10) (2, 27)

5. (-3, -8) (3, -32) (6, -125)

6. (3, 19) (0, -8) (-1, -21)

7. (2, 30) (-5, 93) (6, 258)

8. (-2, -12) (4, -30) (0, -2)

9. (-1, -33) (1, -17) (4, -68)

10. (-2, 41) (4, 53) (1, 11)