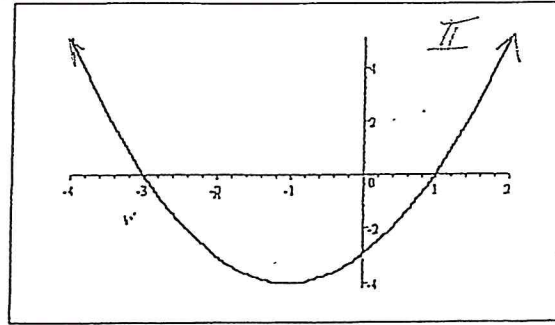


3) Use the three different functions given in different forms to answer the following questions:

- Find the vertex for each.
- Is the vertex a max or a min?
- Which has the least (smallest) min?

$f(x) = 2x^2 - 8x + 6$
Vertex work here

I



III

| | |
|----|----|
| -7 | 5 |
| -6 | 0 |
| -5 | -3 |
| -4 | -4 |
| -3 | -3 |
| -2 | 0 |
| -1 | 5 |
| 0 | 12 |
| 1 | 21 |

Simplify.

4) $(2 - 5i)(3 + 4i)$

5) $(2 - 5i) + (3 + 4i)$

6) $(2 - 5i) - (3 + 4i)$

7) i^{23}

12. Rewrite in vertex form by completing the square. Then describe transformations.

$y = 3x^2 + 6x + 2$