

Determining Vertex of Polynomials

No Calculator

- 1 . What is the value of $y = a(x + 4)(x + 6)$ at the y-value of the vertex in terms of a ?
- 2 . What is the value of $y = a(x + 5)(x - 5)$ at the y-value of the vertex in terms of a ?
- 3 . What is the value of $y = a(x + 2)(x - 4)$ at the y-value of the vertex in terms of a ?
- 4 . What is the value of $y = a(x + 2)(x + 8)$ at the y-value of the vertex in terms of a ?
- 5 . What is the value of $y = a(x - 4)(x + 2)$ at the y-value of the vertex in terms of a ?
- 6 . What is the value of $y = a(x - 3)(x + 5)$ at the y-value of the vertex in terms of a ?
- 7 . What is the value of $y = a(x - 7)(x - 5)$ at the y-value of the vertex in terms of a ?
- 8 . What is the value of $y = a(x - 2)(x + 4)$ at the y-value of the vertex in terms of a ?
- 9 . What is the value of $y = a(x + 9)(x + 17)$ at the y-value of the vertex in terms of a ?
- 10 . What is the value of $y = a(x + 9)(x + 3)$ at the y-value of the vertex in terms of a ?
- 11 . What is the value of $y = a(x - 10)(x - 12)$ at the y-value of the vertex in terms of a ?
- 12 . What is the value of $y = a(x - 4)(x - 12)$ at the y-value of the vertex in terms of a ?
- 13 . What is the value of $y = a(x - 1)(x + 5)$ at the y-value of the vertex in terms of a ?
- 14 . What is the value of $y = a(x - 6)(x - 12)$ at the y-value of the vertex in terms of a ?
- 15 . What is the value of $y = a(x - 6)(x - 16)$ at the y-value of the vertex in terms of a ?
- 16 . What is the value of $y = a(x + 7)(x + 1)$ at the y-value of the vertex in terms of a ?

Answers

1. $-a$
2. $-25a$
3. $-9a$
4. $-9a$
5. $-9a$
6. $-6a$
7. $-a$
8. $-9a$
9. $-6a$
10. $-9a$
11. $-a$
12. $-6a$
13. $-9a$
14. $-9a$
15. $-25a$
16. $-9a$