

Alg 2
Poly Rev 3

1. $y = -(x+1)^2(x+3)^2$

2. $y = (x-1)(x+3)^2$

3. $y = x(x-1)(x+1)$

4. $y = (x+1)^2(x+3)^2$

5. EB $\curvearrowright \uparrow$ A+F

6. EB $\curvearrowright \downarrow$ D+G

7. $\curvearrowleft \downarrow$ B+E

8. EB $\curvearrowright \uparrow$ C+H

9. A Its EB is $\curvearrowleft \uparrow$ w/ y-int of (0, -9)

-or- if solved: $x^3 - 9 = 0$

$x^3 = 9$

$x = \sqrt[3]{9}$ one real

sol'n / crosses
once

10. D Its EB is $\curvearrowright \uparrow$, y-int of (0, -9) -or- if solved $x^2 - 9 = 0$

$x^2 = 9$

$x = \pm 3$

2 real sol'n's

crosses twice

11. C Its EB is $\curvearrowright \uparrow$, y-int of (0, 0) -or- if solved

$x^2 - 9x = 0$

$x(x-9) = 0$

$x = 0$ $x - 9 = 0$

$x = 9$

2 real sol'n's

crosses twice

12. B Its EB is $\curvearrowleft \uparrow$, y-int of (0, 0)

-or- if solved $x^3 - 9x = 0$

$x(x^2 - 9) = 0$

$x = 0$ $x^2 - 9 = 0$

$x^2 = 9$

$x = \pm 3$

* crosses x-axis

3 real sol'n's, crosses 3 times