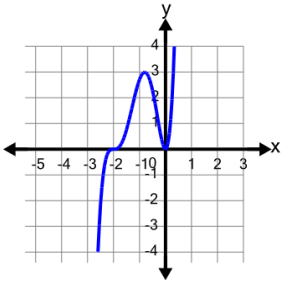


Function Root Behaviour (Polynomials) - Graph to Function

1 Which function would create this graph?



A $f(x) = (x + 2)^2 x^3$

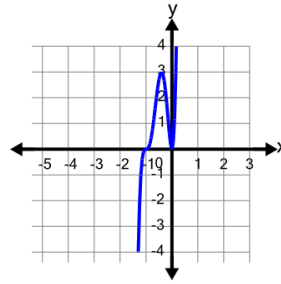
B $f(x) = x^2(x - 2)^3$

C $f(x) = (x + 2)^3(x + 1)^2$

D $f(x) = (x + 2)^3 x^2$

E $f(x) = (x - 2)(x - 3)$

2 Which function would create this graph?



A $f(x) = x^2(x - 1)^3$

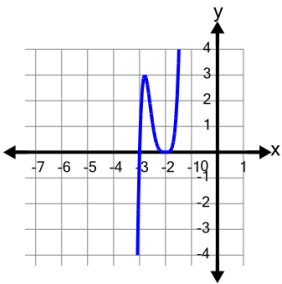
B $f(x) = (x - 2)(x - 3)$

C $f(x) = (x + 1)^2 x^3$

D $f(x) = (x + 1)^3 x^2$

E $f(x) = (x + 1)^2 x^2$

3 Which function would create this graph?



A $f(x) = (x + 3)^4(x + 2)$

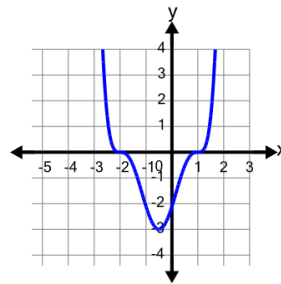
B $f(x) = (x + 3)(x + 1)^4$

C $f(x) = (x - 2)^4(x - 3)$

D $f(x) = (x - 1)(x - 4)$

E $f(x) = (x + 3)(x + 2)^4$

4 Which function would create this graph?



A $f(x) = (x + 2)^3(x - 1)^3$

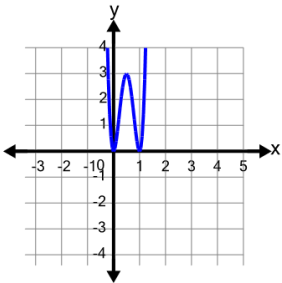
B $f(x) = (x + 2)^3(x + 1)^3$

C $f(x) = (x + 2)^3(x - 2)^3$

D $f(x) = (x - 1)^3(x - 2)^3$

E $f(x) = (x + 1)^3(x - 2)^3$

5 Which function would create this graph?



A $f(x) = x^3(x - 1)^2$

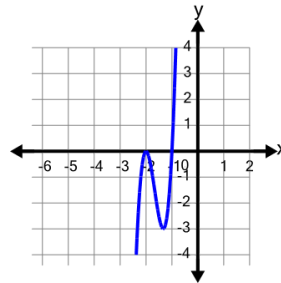
B $f(x) = (x + 1)^2 x^2$

C $f(x) = x^2(x - 1)^3$

D $f(x) = x^2(x - 1)^2$

E $f(x) = x^2(x - 2)^2$

6 Which function would create this graph?



A $f(x) = (x + 2)(x + 1)^2$

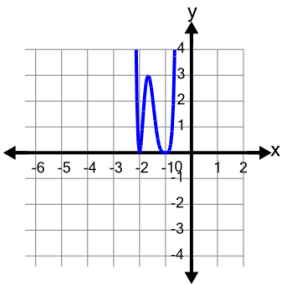
B $f(x) = (x + 2)^2(x + 1)$

C $f(x) = (x - 1)(x - 2)$

D $f(x) = (x + 2)^3 x^2$

E $f(x) = (x - 1)(x - 2)^2$

7 Which function would create this graph?



A $f(x) = (x + 2)^2(x + 1)^4$

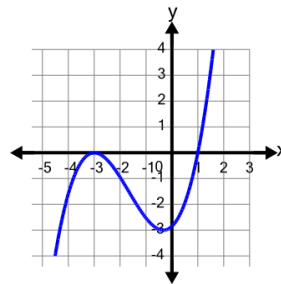
B $f(x) = (x + 2)^4(x + 1)^2$

C $f(x) = (x + 2)^3(x + 1)^4$

D $f(x) = (x - 1)^4(x - 2)^2$

E $f(x) = (x - 2)(x - 4)$

8 Which function would create this graph?



A $f(x) = (x + 3)^2(x - 1)$

B $f(x) = (x + 2)^2(x - 1)$

C $f(x) = (x + 3)(x - 1)^2$

D $f(x) = (x - 1)(x - 2)$

E $f(x) = (x + 1)(x - 3)^2$