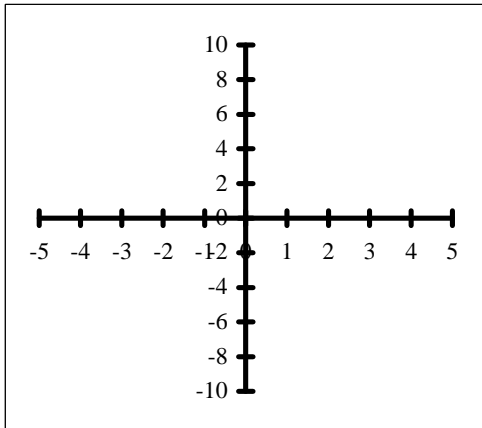


4.5. Wiederholung ganzrationaler Funktionen

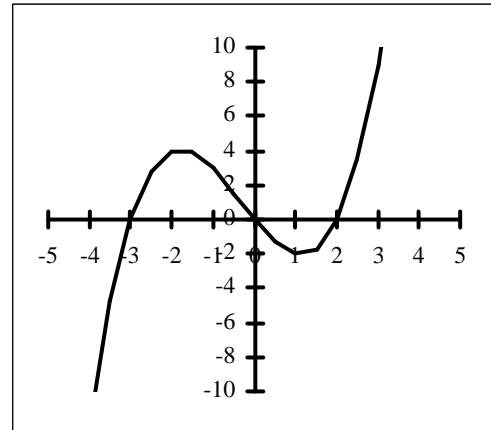
Trage die fehlenden Skizzen und Funktionsgleichungen ein. Kontrolliere das Ergebnis anhand der Achsenschnittpunkte und eines weiteren Punktes.

Aufgabe 1



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

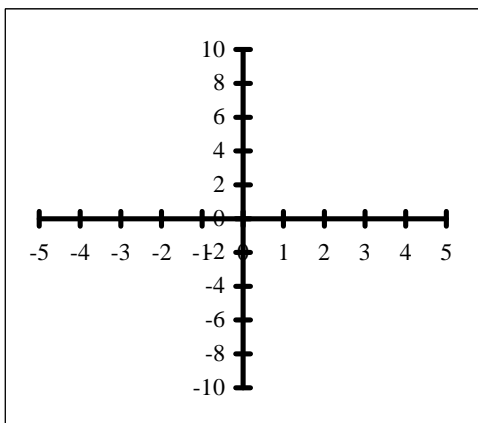
=



$$f(x) =$$

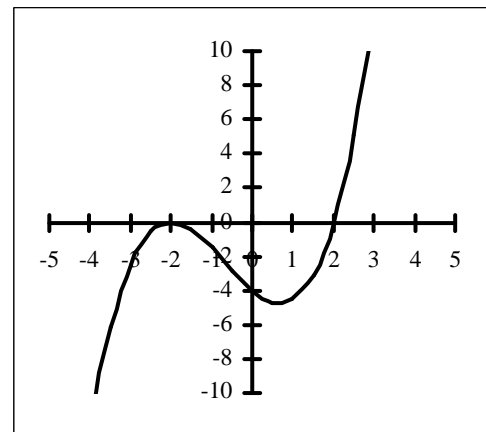
=

Aufgabe 2



$$f(x) = 0,2(x^2 - 1)(x^2 - 9)$$

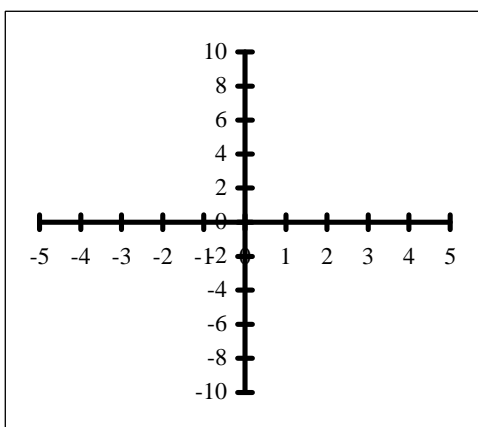
=



$$f(x) =$$

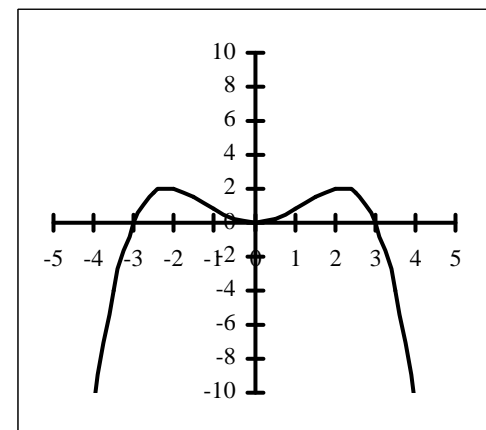
=

Aufgabe 3



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

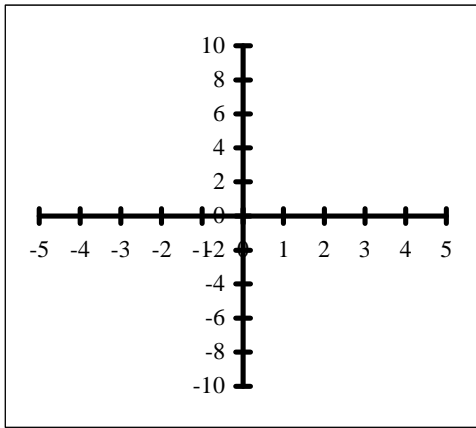
=



$$f(x) =$$

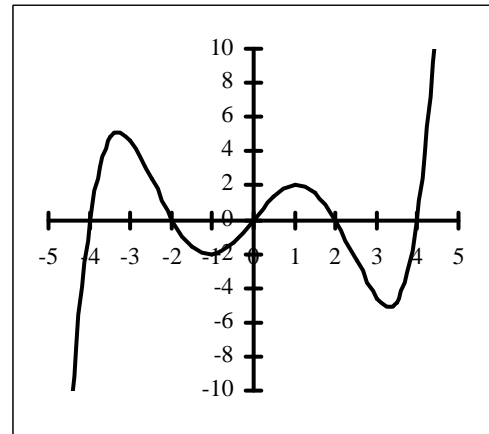
=

Aufgabe 4



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

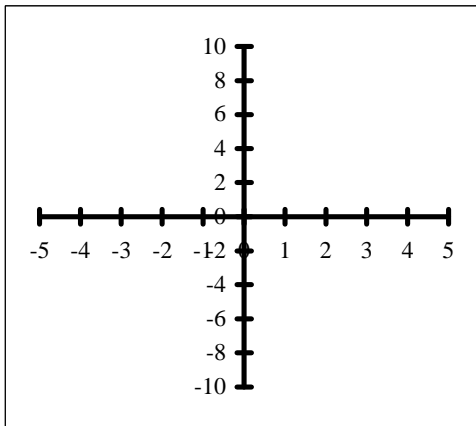
$$=$$



$$f(x) =$$

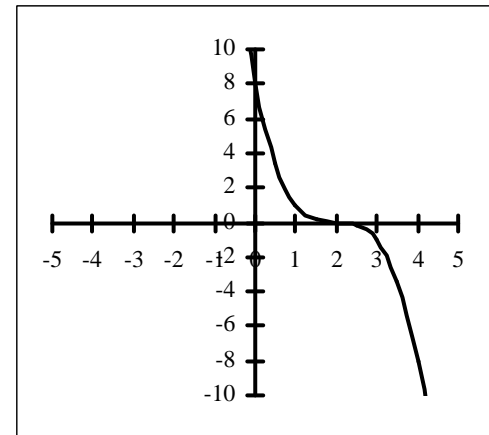
$$=$$

Aufgabe 5



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

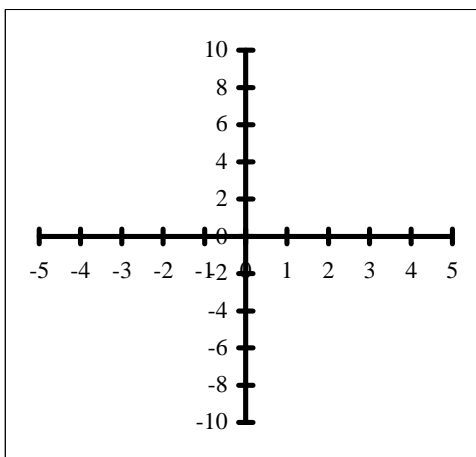
$$=$$



$$f(x) =$$

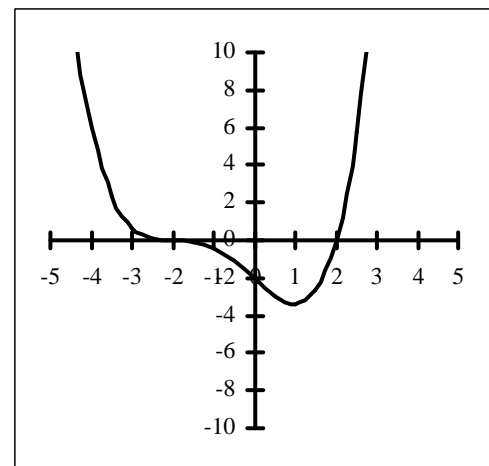
$$=$$

Aufgabe 6



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

$$=$$



$$f(x) =$$

$$=$$