أتدرب وأحل المسائل

اقتران القيمة المطلقة

أعيد تعريف كل من الاقترانات الآتية:

(1) $f(x)=|x-6|$

$f(x)=\{x-6, x\geq 6 \quad 6-x, x<6$

(2) $g(x)=|3x+3|$

$g(x)=\{3x+3, x\geq -1 \quad -3x-3, x<-1$

(3) $h(x)=|2x-5|+3$

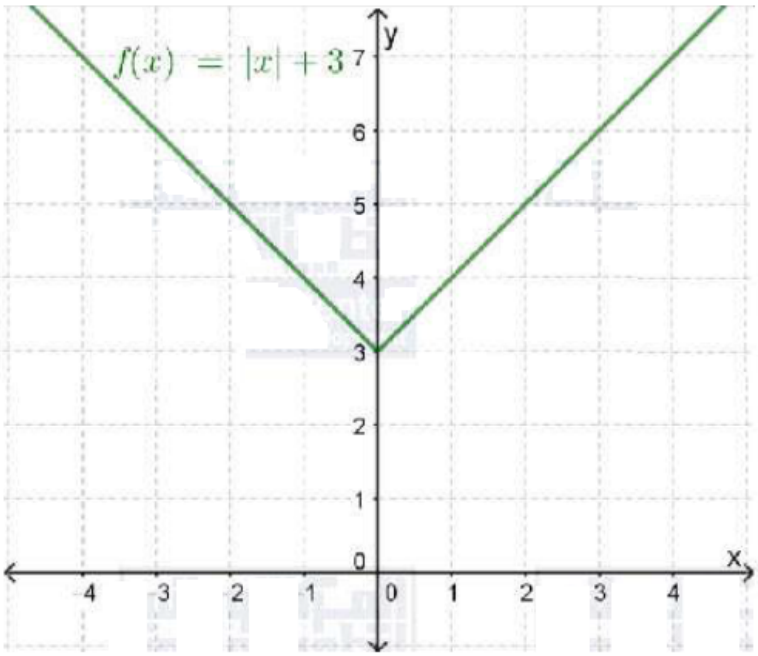
$h(x)=\{2x-2, x\geq 2.5 \quad -2x+8, x<2.5$

(4) $p(x)=3|x+1|$

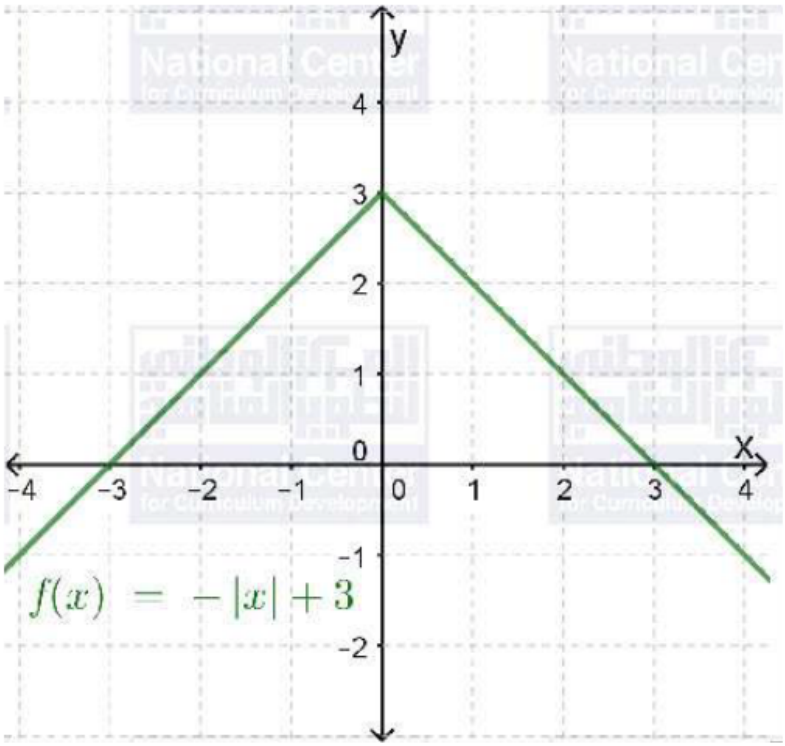
$p(x)=\{3(x+1), x\geq -1 \quad -3(x+1), x<-1$

أمثل بيانياً كل اقتران مما يأتي، محدداً مجاله ومداه:

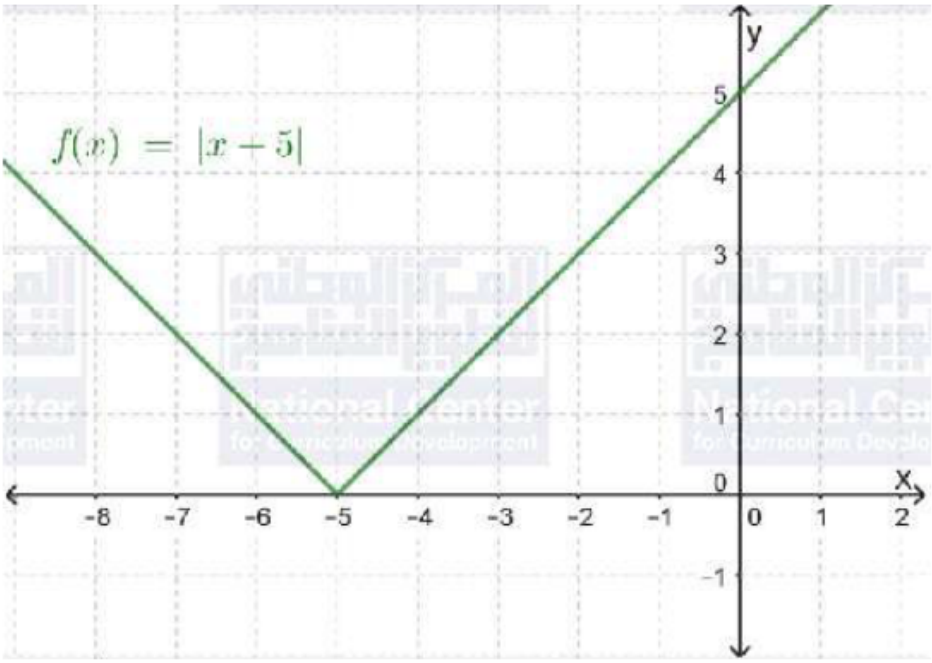
(5) $f(x)=|x|+3$



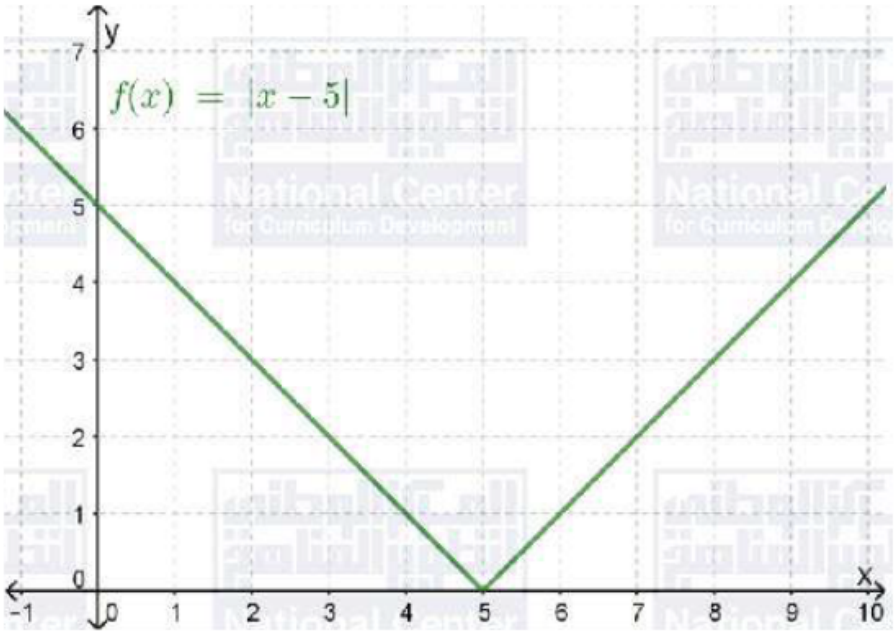
(6) f(x)=−|x|+3



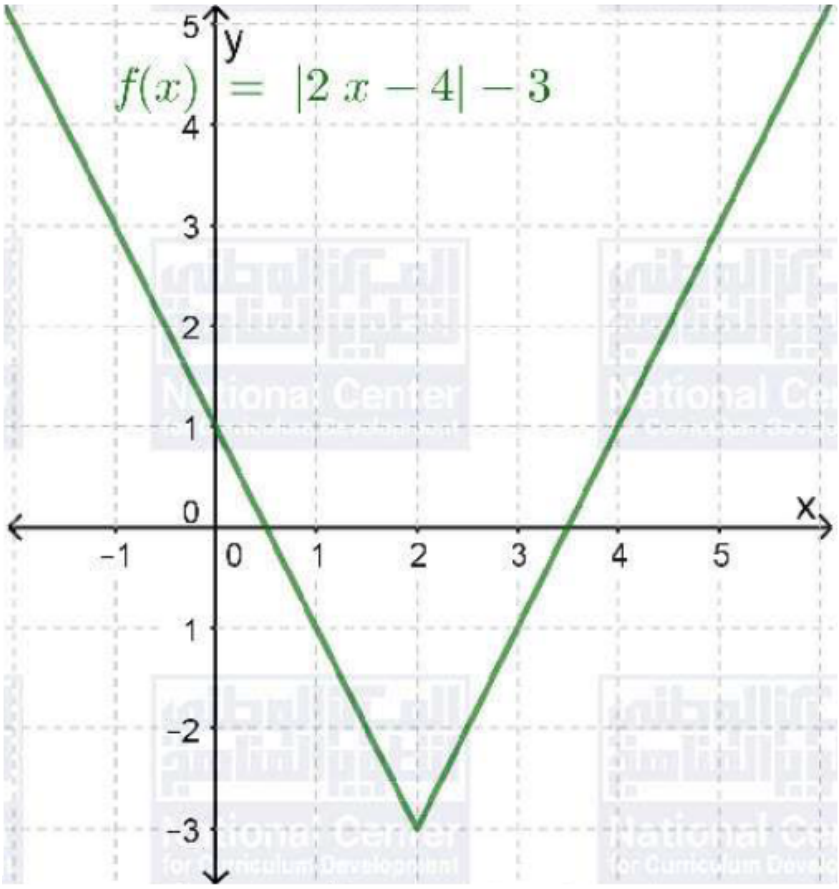
(7) f(x)=|x+5|



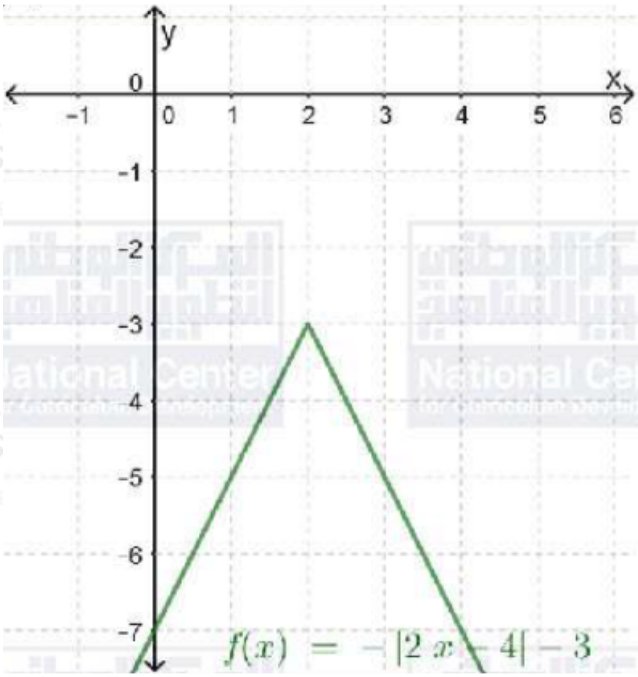
(8) f(x)=|x−5|



(9) f(x)=|2x−4|−3

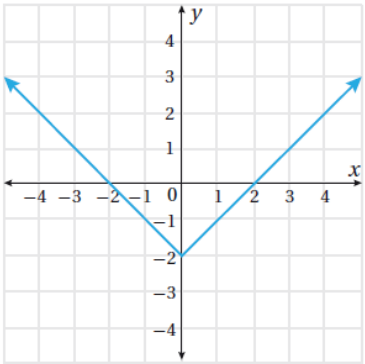


(10) f(x)=−|2x−4|−3

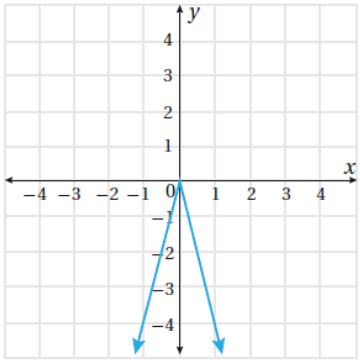


أكتب قاعدة اقتران القيمة المطلقة الممثل بيانياً في كلّ مما يأتي:

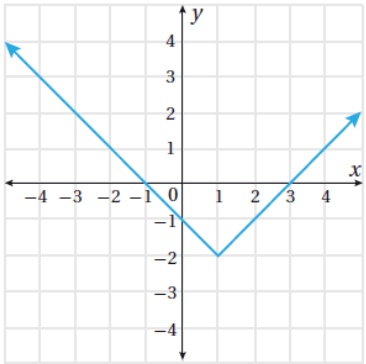
11



12



13



(11) f(x)=|x|−2

(12) f(x)=−|4x|

(13) f(x)=|x−1|−2