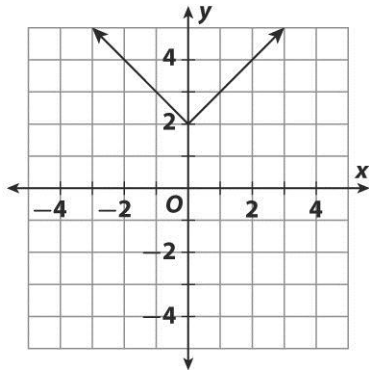


## WKS 2-1

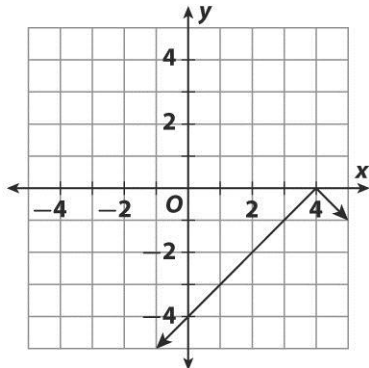
### Practice and Problem Solving: A/B

1.



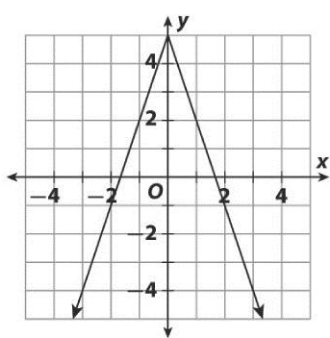
Vertex:  $(0, 2)$ ; Domain: all reals; Range: all reals  $\geq 2$

2.



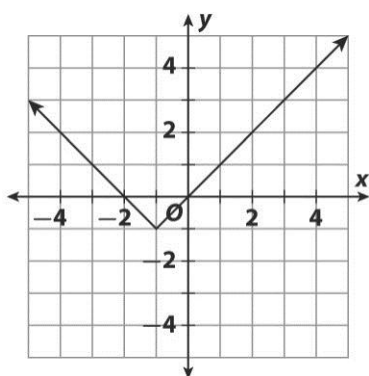
Vertex:  $(4, 0)$ ; Domain: all reals; Range: all reals  $\leq 0$

3.



Vertex:  $(0, 5)$ ; Domain: all reals; Range: all reals  $\leq 5$

4.



Vertex:  $(-1, -1)$ ; Domain: all reals; Range: all reals  $\geq -1$

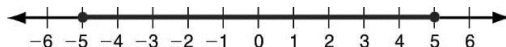
5. \$45

6. Charles's lowest hourly rate is \$20.  
 He charges it when he works 8 hours.  
 You can find it by identifying the vertex  
 of the function.

### WKS 2-3

#### Practice and Problem Solving: A/B

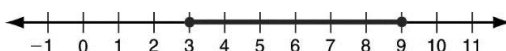
1.  $x \geq -5$  and  $x \leq 5$



2.  $x > -3$  and  $x < 1$

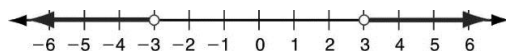


3.  $x \geq 3$  and  $x \leq 9$

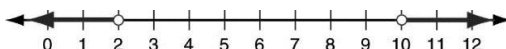


4. *No Solution*

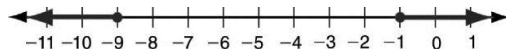
5.  $x < -3$  or  $x > 3$



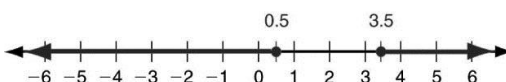
6.  $x < 2$  or  $x > 10$



7.  $x \leq -9$  or  $x \geq -1$



8.  $x \leq 0.5$  or  $x \geq 3.5$



9.  $|x - 350| \leq 35$ ;  $315 \leq x \leq 385$

10.  $|x - 88| \leq 7.5$ ;  $80.5 \leq x \leq 95.5$