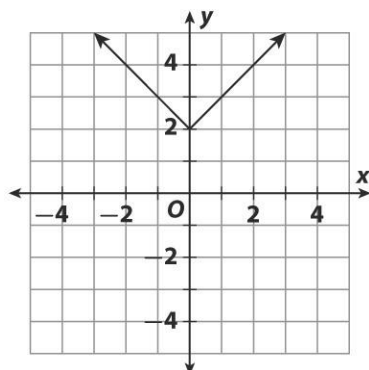


WKS 2-1

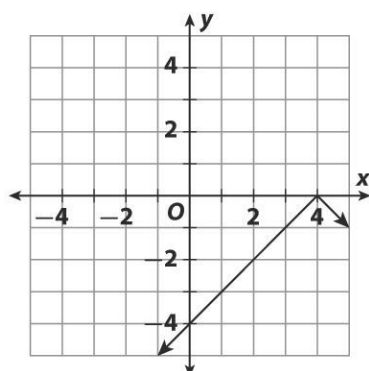
Practice and Problem Solving: A/B

1.



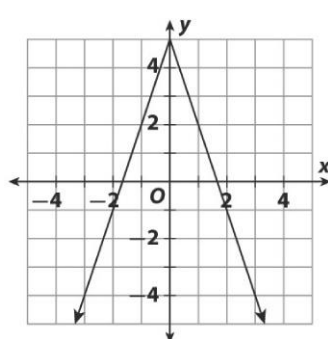
Vertex: $(0, 2)$; Domain: all reals; Range: all reals ≥ 2

2.



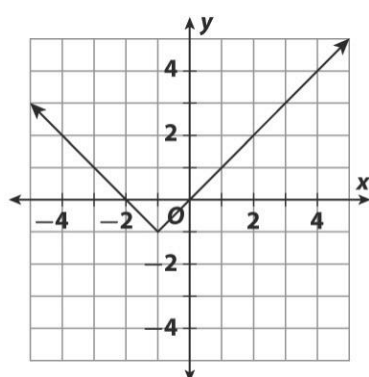
Vertex: $(4, 0)$; Domain: all reals; Range: all reals ≤ 0

3.



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

4.



Vertex: $(-1, -1)$; Domain: all reals;
Range: all reals ≥ -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.

LESSON 2-2

Practice and Problem Solving: A/B

1. two

2. one

3. none

4. $x = -12$ or $x = 12$

5. $x = -\frac{1}{2}$ or $x = \frac{1}{2}$

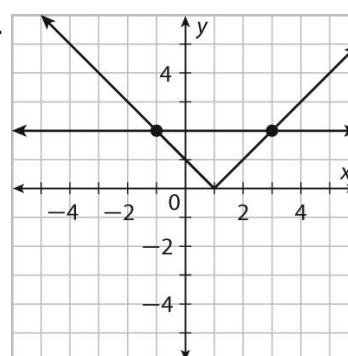
6. $x = -10$ or $x = 10$

7. $x = -9$ or $x = 9$

8. $x = -8$ or $x = 8$

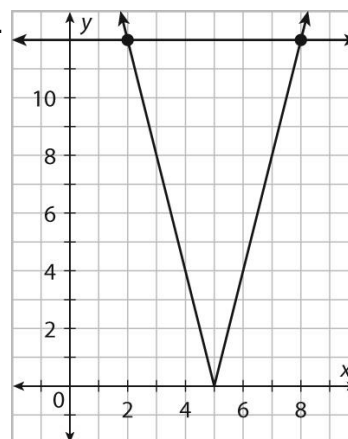
9. $x = -13$ or $x = 7$

10.



$x = -1$ or $x = 3$

11.



$x = 2$ or $x = 8$

12. $|x - 68| = 3.5$

13. 64.5° ; 71.5°

Practice and Problem Solving: C

1. No solution

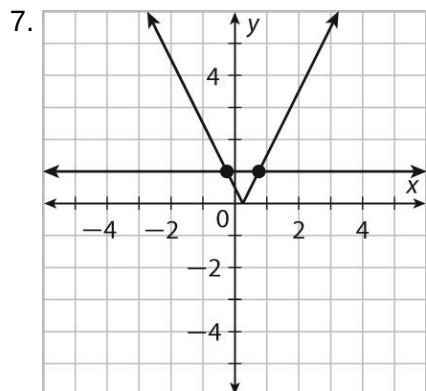
2. $x = -7$ or $x = 7$

3. $x = -11$

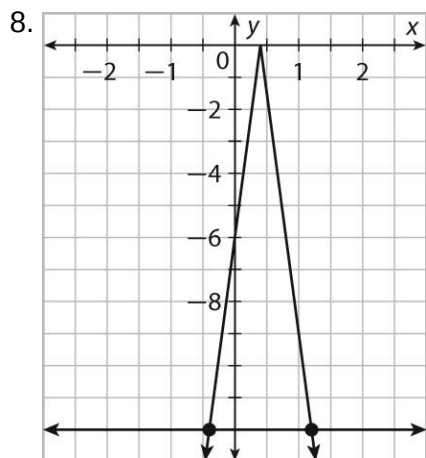
4. $x = -\frac{3}{2}$ or $x = \frac{5}{2}$

5. no solution

6. $x = -6.6$ or $x = 8.6$



$x = -0.25$ or $x = 0.75$



$x = -0.4$ or $x = 1.2$

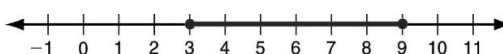
9. $|x - 3| = 0.005$; 2.995 m; 3.005 m

10. $|x + 5| = 1.5$; -6.5°C ; -3.5°C

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

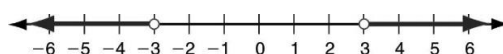


3. $x \geq 3$ and $x \leq 9$

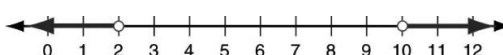


4. No Solution

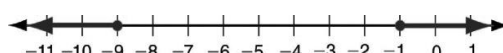
5. $x < -3$ or $x > 3$



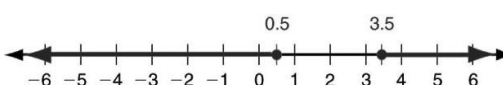
6. $x < 2$ or $x > 10$



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

WKS 2-3

Practice and Problem Solving: A/B

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

