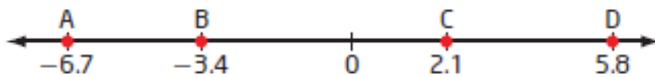


**Section 7.1 Page 363 Question 5**

a) distance AC:

$$\begin{aligned} |2.1 - (-6.7)| &= |2.1 + 6.7| \\ &= |8.8| \\ &= 8.8 \end{aligned}$$



b) distance BD:

$$\begin{aligned} |5.8 - (-3.4)| &= |5.8 + 3.4| \\ &= |9.2| \\ &= 9.2 \end{aligned}$$

c) distance CB:

$$\begin{aligned} |-3.4 - 2.1| &= |-5.5| \\ &= 5.5 \end{aligned}$$

d) distance DA:

$$\begin{aligned} |-6.7 - 5.8| &= |-12.5| \\ &= 12.5 \end{aligned}$$

**Section 7.1 Page 363 Question 6**

a)  $2(|-6 - (-11)|) = 2(|-6 + 11|)$   
 $= 2|5|$   
 $= 2(5)$   
 $= 10$

b)  $|-9.5| - |12.3| = 9.5 - 12.3$   
 $= -2.8$

c)  $3\left(\left|\frac{1}{2}\right|\right) + 5\left(\left|-\frac{3}{4}\right|\right) = 3\left(\frac{1}{2}\right) + 5\left(\frac{3}{4}\right)$   
 $= \frac{3}{2} + \frac{15}{4}$   
 $= \frac{6}{4} + \frac{15}{4}$   
 $= \frac{21}{4}$

d)  $|3(-2)^2 + 5(-2) + 7| = |12 - 10 + 7|$   
 $= |9|$   
 $= 9$

e)  $|-4 + 13| + |6 - (-9)| - |8 - 17| + |-2| = |9| + |15| - |-9| + 2$   
 $= 9 + 15 - 9 + 2$   
 $= 17$

**Section 7.1 Page 363 Question 7**

Examples:

a)  $|8 - 3| = |5|$   
 $= 5$

b)  $|12 - (-8)| = |20|$   
 $= 20$

c)  $|2 - 9| = |-7|$   
 $= 7$

d)  $|-7 - 15| = |-22|$   
 $= 22$

e)  $|a - b|$

f)  $|m - n|$