

Final answer key >

1) [C]

$$-4 \leq 2x + 10 \leq 4$$

$$-14 \leq 2x \leq -6$$

$$-7 \leq x \leq -3 \quad \therefore [a]$$

3) $4x + 2 = 3, \quad \therefore [a]$

$$\textcircled{1} 4x + 2 = 3 \quad \textcircled{2} 4x + 2 = -3$$

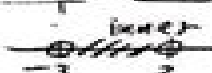
$$4x = 1$$


$$4x = -5$$

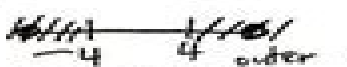
$$x = 1/4$$

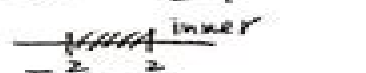
$$x = -5/4$$

4) $|x+3| \leq 3$ 
 $x+3 \leq -3, \quad 3 \leq x+3$
 $x \leq -6, \quad 0 \leq x \quad \therefore [a]$

5) $|4x-2| < 3$ 
 $-3 < 4x-2 < 3$
 $-1 < 4x < 5$
 $-1/4 < x < 5/4 \quad [a]$

6) $|x+1| > 2$ 
 $x+1 < -2, \quad 2 < x+1$
 $x < -3, \quad 1 < x \quad [b]$

7) $|x-1| > 4$ 
 $x-1 < -4, \quad 4 < x-1$
 $x < -3, \quad 5 < x \quad [c]$

8) $|\frac{1}{2} - x| \leq \frac{2}{3}$ 
 $-\frac{2}{3} \leq \frac{1}{2} - x \leq \frac{2}{3}$
 $-\frac{2}{3} - \frac{1}{2} \leq -x \leq \frac{2}{3} - \frac{1}{2}$
 $-\frac{7}{6} \leq -x \leq \frac{1}{6} \quad \frac{7}{6} \geq x \geq -\frac{1}{6} \quad [d]$

9. $y = 3x + 1, \quad (x_1, y_1) = (0, -2)$

parallel to it \Rightarrow slope is $3 = m$

$$y = mx + b$$

$$y = 3x + b, \quad (0, -2)$$

$$-2 = 3 \cdot 0 + b \quad b = -2$$

$$y = 3x - 2 \quad \therefore [a]$$

10. $m = 4, \quad (-7, -6)$

$$y - y_1 = m(x - x_1)$$

$$y - (-6) = 4(x - (-7))$$

$$y + 6 = 4(x + 7)$$

$$y = 4x + 28 - 6$$

$$y = 4x + 22 \quad [a]$$

11. $y - y_1 = \frac{y_2 - y_1}{x_2 - x_1} (x - x_1)$

$$y - 19 = \frac{28 - 19}{-15 - (-6)} \{x - (-6)\}$$

$$y - 19 = \frac{9}{-9} (x + 6)$$

$$y - 19 = -1 \cdot (x + 6)$$

$$y - 19 = -x - 6$$

$$y = -x + 19, \quad x + y = 13 \quad [a]$$

12. $y = 4x - 6$ slope $m = 4$

$$y = 4x + b, \quad (-5, -1)$$

$$-1 = 4 \cdot (-5) + b$$

$$-1 = -20 + b$$

$$b = 19 \quad y = 4x + 19 \quad [a]$$

13. $y = -3x + 6$ perpendicular: $m = \frac{1}{3}$

$$y = \frac{1}{3}x + b, \quad (3, 7)$$

$$7 = \frac{1}{3} \cdot 3 + b$$

$$7 = 1 + b$$

$$6 = b$$

$$y = \frac{1}{3}x + 6 \quad [a]$$

Measuring Up Math Answer Key Final Level

Karin Nielsen-Saines



Measuring Up Math Answer Key Final Level:

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