

10. A line with a slope of $\frac{1}{2}$ passes through the points $(3, 2k)$ and $(7, 4)$. Find the value of k .

$$m = \frac{4 - 2k}{7 - 3} = \frac{1}{2}$$

$$\frac{4 - 2k}{4} = \frac{1}{2}$$

$$8 - 4k = 4$$

$$k = 1$$

11. Given the two marked lines in the diagram are parallel, calculate the value of x , y , and z .

$$5x + 3 + 7x + 33 = 180$$

$$12x + 36 = 180$$

$$12x = 144$$

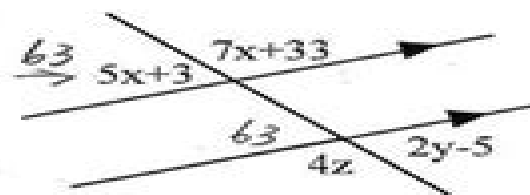
$$x = 12$$

$$4z = 117$$

$$z = \frac{117}{4}$$

$$2y - 5 = 63$$

$$y = 34$$

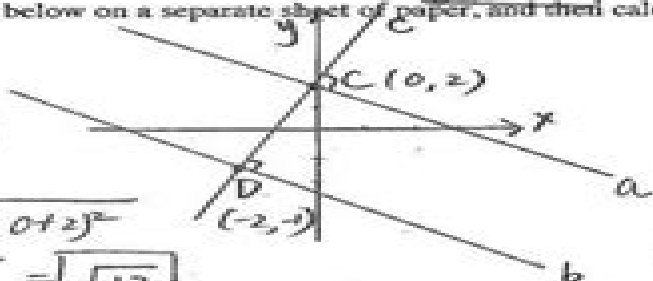


12. Graph the lines below on a separate sheet of paper, and then calculate the shortest distance between the lines.

$$y = -\frac{2}{3}x + 2$$

$$2x + 3y = -7$$

$$CD = \sqrt{(2+1)^2 + (0+2)^2} = \sqrt{9+4} = \sqrt{13}$$



Equation for C: $y = \frac{3}{2}x + 2$
Point D is the intersection of line b and line C

$$\begin{cases} y = \frac{3}{2}x + 2 \\ y = -\frac{2}{3}x - \frac{7}{3} \end{cases} \quad D(-2, -1)$$

$$\frac{3}{2}x + 2 = -\frac{2}{3}x - \frac{7}{3}$$

$$x = -2 \quad y = -1$$

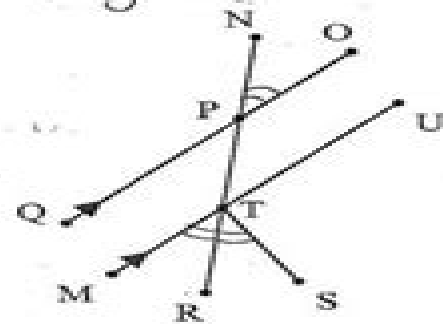
13. Given that $\overline{QO} \parallel \overline{MU}$ and \overline{TR} bisects $\angle MTS$, which means $\angle MTR = \angle STR$. Explain how you can tell that $\angle NPO = \angle STR$ by rearranging the steps below, and giving reasons for each step.

a. $\angle NPO = \angle STR$

b. $\angle NPO = \angle MTR$

c. $\angle STR = \angle MTR$

$\angle NPO \cong \angle MTR$ alt. ext. L's
 $\angle STR \cong \angle MTR$ angle bisector (given)
 $\angle NPO \cong \angle STR$ transitive



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