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.

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

$$12x + 36 = 180$$

$$12x = 144 \qquad \boxed{x = 12}$$

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

$$2y - 5 = 63$$

$$\boxed{y = 34}$$

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

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

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

$$= \sqrt{9 + 4} = \boxed{\sqrt{13}}$$

Equation for c: $y = \frac{3}{2}x + 2$

Point D is the intersection of line b and line c

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

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

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

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

a. $\angle NPO \cong \angle STR$

b. $\angle NPO \cong \angle MTR$

c. $\angle STR \cong \angle MTR$

$$\angle NPO \cong \angle MTR \qquad \text{alt. ext. } \angle\text{'s}$$
$$\angle STR \cong \angle MTR \qquad \text{angle bisector (given)}$$
$$\angle NPO \cong \angle STR \qquad \text{transitive}$$

Practice 8 1 Answer Key Geometry

Christopher Black,Mark Anestis

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