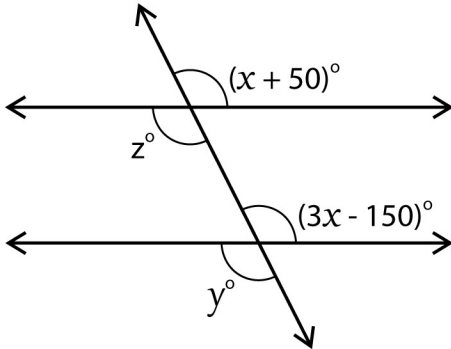


Parallel Lines and Transversals Algebra Worksheet

Solve for x and calculate the angles mentioned.

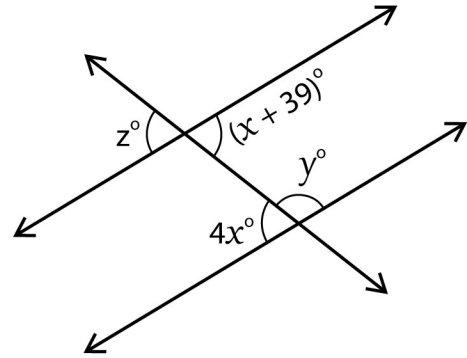
①



$$x = \underline{\hspace{2cm}}$$

$$\angle z = \underline{\hspace{2cm}} \quad \angle y = \underline{\hspace{2cm}}$$

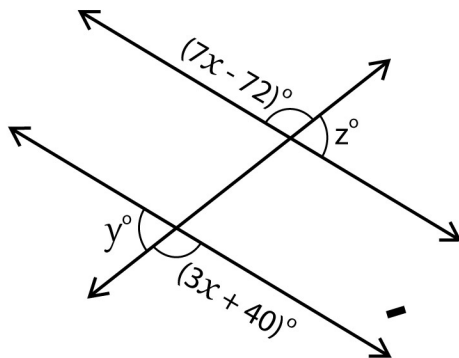
②



$$x = \underline{\hspace{2cm}}$$

$$\angle z = \underline{\hspace{2cm}} \quad \angle y = \underline{\hspace{2cm}}$$

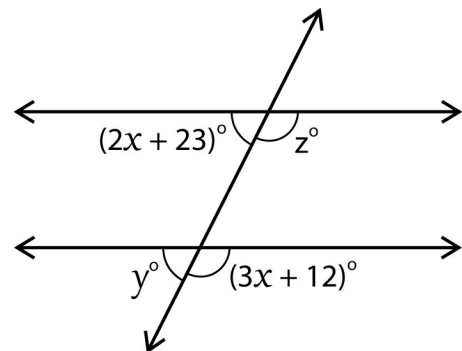
③



$$x = \underline{\hspace{2cm}}$$

$$\angle z = \underline{\hspace{2cm}} \quad \angle y = \underline{\hspace{2cm}}$$

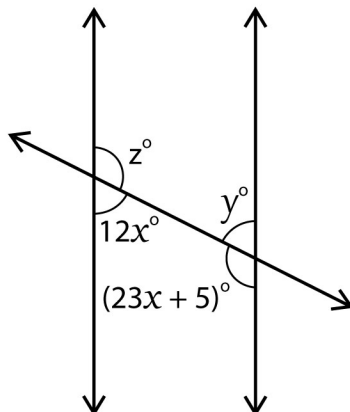
④



$$x = \underline{\hspace{2cm}}$$

$$\angle z = \underline{\hspace{2cm}} \quad \angle y = \underline{\hspace{2cm}}$$

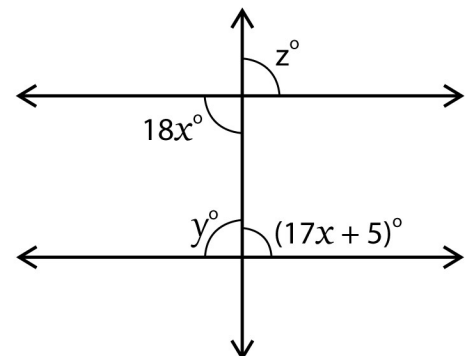
⑤



$$x = \underline{\hspace{2cm}}$$

$$\angle z = \underline{\hspace{2cm}} \quad \angle y = \underline{\hspace{2cm}}$$

⑥



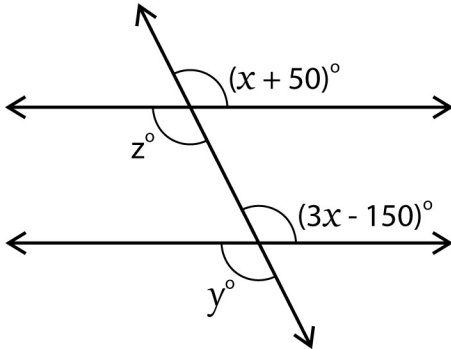
$$x = \underline{\hspace{2cm}}$$

$$\angle z = \underline{\hspace{2cm}} \quad \angle y = \underline{\hspace{2cm}}$$

Parallel Lines and Transversals Algebra Worksheet

Answers

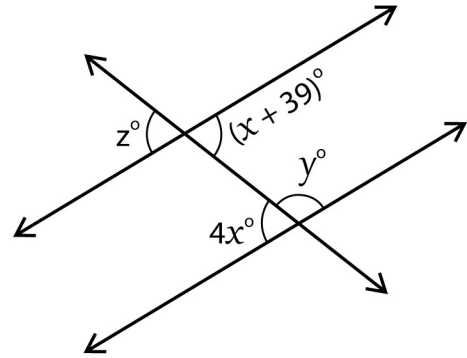
①



$$x = \underline{100^\circ}$$

$$\angle z = \underline{150^\circ} \quad \angle y = \underline{150^\circ}$$

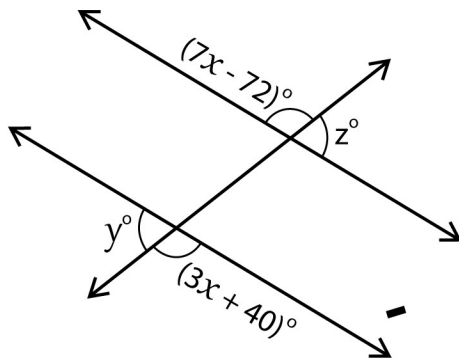
②



$$x = \underline{13^\circ}$$

$$\angle z = \underline{52^\circ} \quad \angle y = \underline{128^\circ}$$

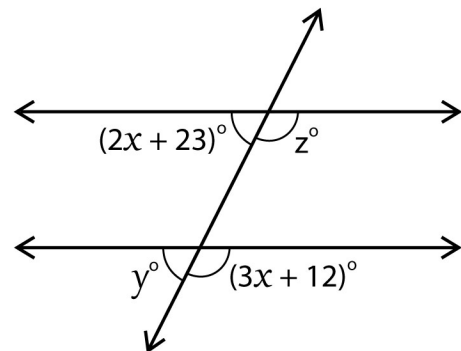
③



$$x = \underline{28^\circ}$$

$$\angle z = \underline{56^\circ} \quad \angle y = \underline{56^\circ}$$

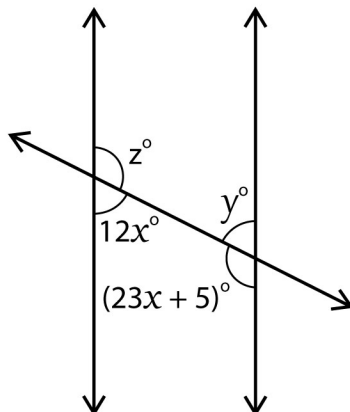
④



$$x = \underline{29^\circ}$$

$$\angle z = \underline{99^\circ} \quad \angle y = \underline{81^\circ}$$

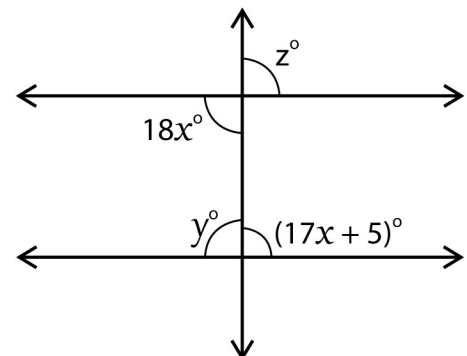
⑤



$$x = \underline{5^\circ}$$

$$\angle z = \underline{120^\circ} \quad \angle y = \underline{60^\circ}$$

⑥



$$x = \underline{5^\circ}$$

$$\angle z = \underline{90^\circ} \quad \angle y = \underline{90^\circ}$$