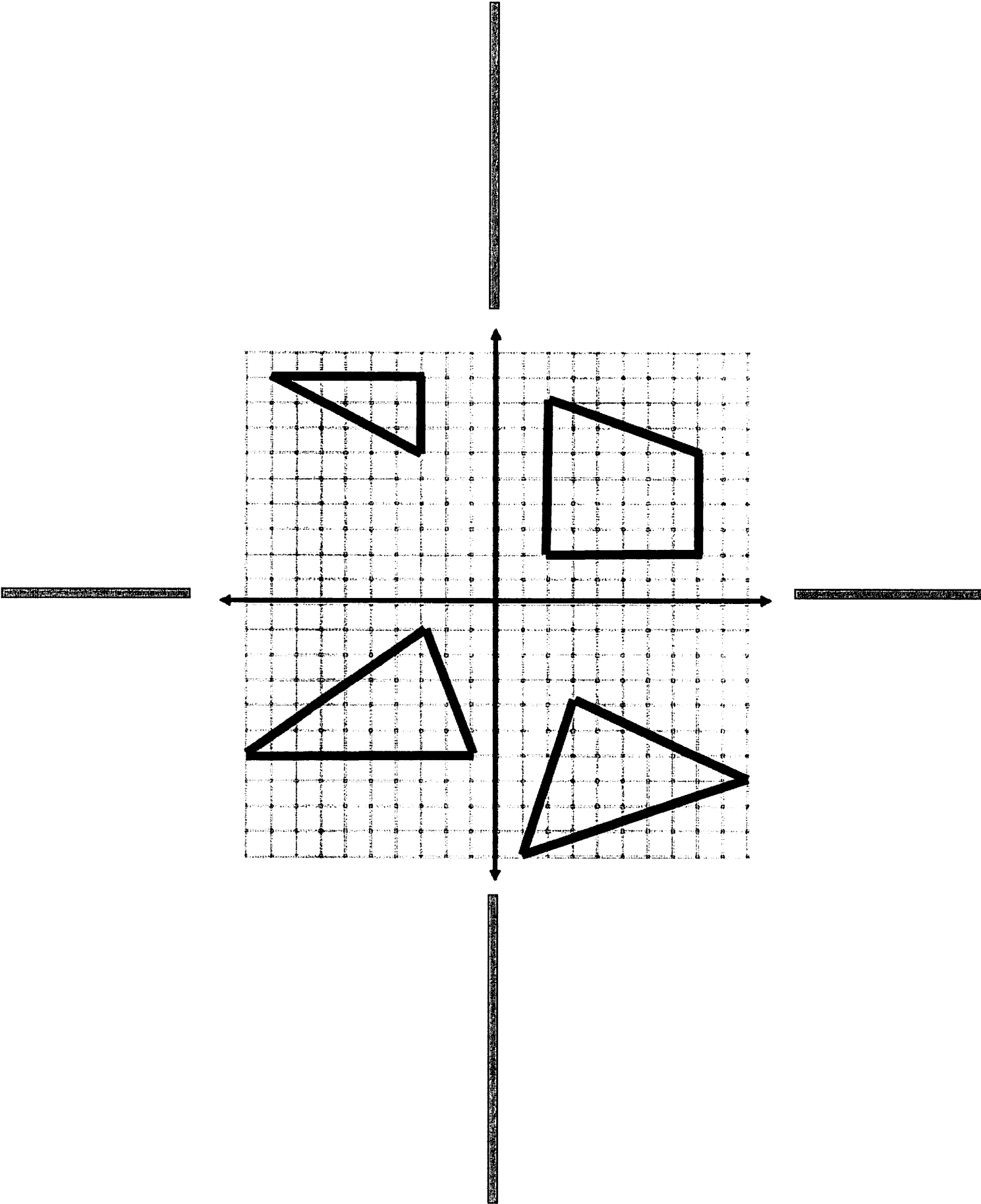
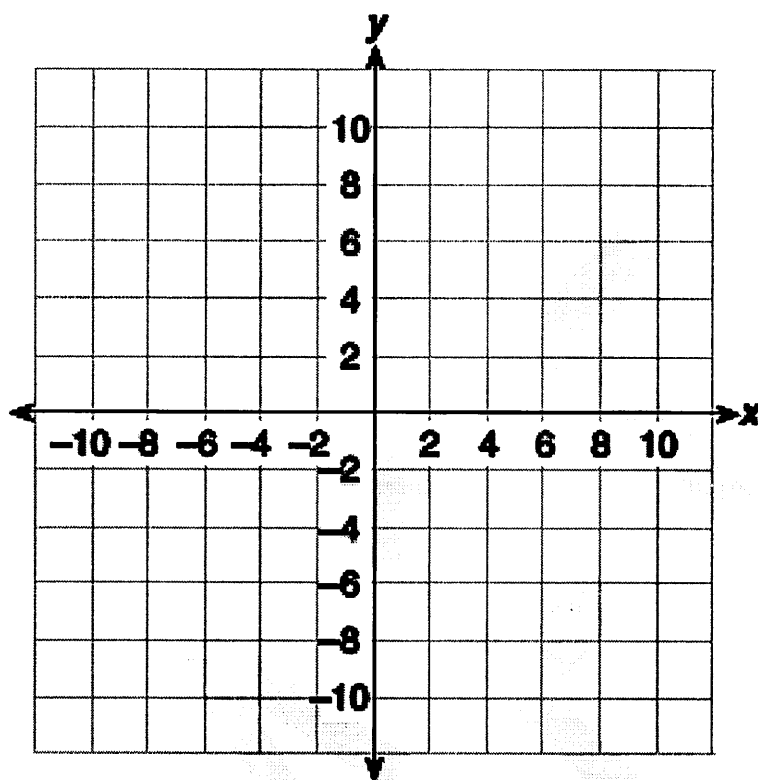


Find the Area of Each Shape



2.

Triangle PQR and triangle QRS have vertices $P(-9,7)$, $Q(4,7)$, $R(4,-3)$, and $S(10,-3)$.



What is the area, in square units, of quadrilateral $PQSR$ which is formed by the two triangles?

- A 30
- B 65
- C 95
- D 190

Find the Area of Each Shape

$$A = \frac{b \cdot h}{2}$$

$$A = \frac{6 \cdot 3}{2}$$

$$A = 9 \text{ units}^2$$

$$A = \frac{b \cdot h}{2}$$

$$A = \frac{6 \cdot 2}{2} = 6 \text{ units}^2$$

Total Area

$$6 + 24 = 30 \text{ units}^2$$

$$A = b \cdot h$$

$$A = 6 \cdot 4 = 24 \text{ units}^2$$

$$A = \frac{b \cdot h}{2}$$

$$A = \frac{9 \cdot 5}{2}$$

$$A = 22.5 \text{ units}^2$$

$$A_{\Delta 2} = \frac{7 \cdot 3}{2} = 10.5$$

$$A_{\Delta 3} = \frac{9 \cdot 3}{2} = 13.5$$

Area of Δ =

$$\begin{array}{r} 54 \\ - 6 \\ - 10.5 \\ - 13.5 \\ \hline 24 \text{ units}^2 \end{array}$$

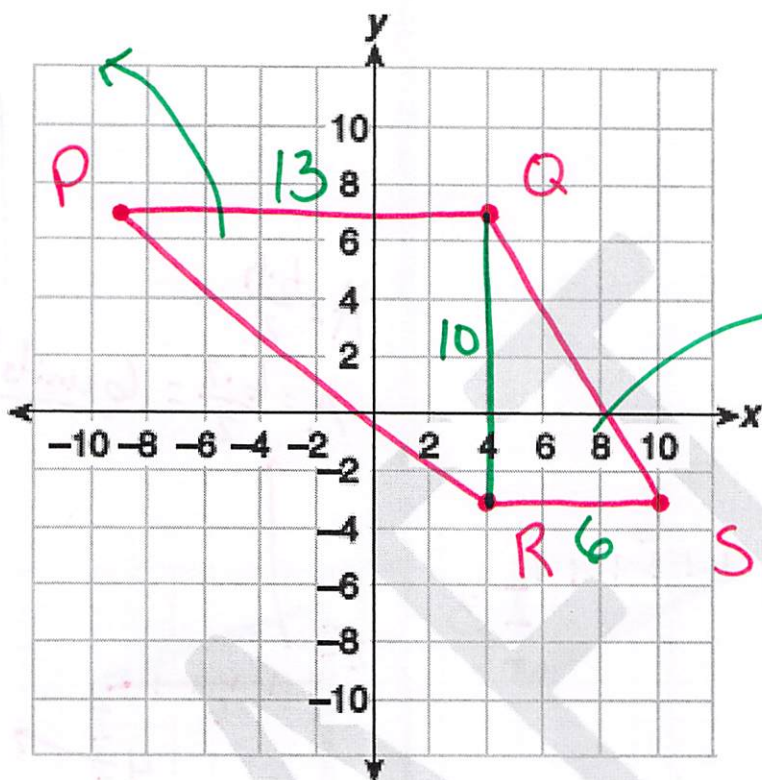
2.

Triangle PQR and triangle QRS have vertices $P(-9,7)$, $Q(4,7)$, $R(4,-3)$, and $S(10,-3)$.

$$A = \frac{b \cdot h}{2}$$

$$A = \frac{13 \cdot 10}{2}$$

$$A = 65 \text{ units}^2$$



$$A = \frac{b \cdot h}{2}$$

$$A = \frac{10 \cdot 6}{2}$$

$$A = 30 \text{ units}^2$$

What is the area, in square units, of quadrilateral $PQSR$ which is formed by the two triangles?

$$\text{Total Area} = 65 + 30$$

$$95 \text{ units}^2$$

A 30

B 65

C 95

D 190