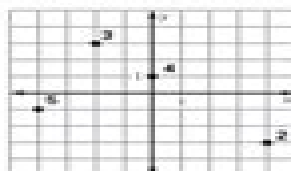


## Chapter 5 Relationships within Triangles

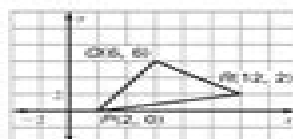
### Prerequisite Skills for the chapter "Relationships within Triangles"

- No, the distance from a point to a line is the length of the perpendicular segment from the point to the line and  $\overline{PQ}$  is not perpendicular to  $\overline{AB}$ .

2–5.



6.



$$PQ = \sqrt{(6-2)^2 + (8-0)^2} = \sqrt{52} \approx 7.2$$

$$QR = \sqrt{(12-6)^2 + (2-8)^2} = \sqrt{52} \approx 7.2$$

$$PR = \sqrt{(12-2)^2 + (2-0)^2} = \sqrt{104} \approx 10.2$$

Isosceles triangle

7.



$$PQ = \sqrt{(4-2)^2 + (7-3)^2} = \sqrt{20} \approx 4.5$$

$$QR = \sqrt{(11-4)^2 + (3-7)^2} = \sqrt{65} \approx 8.1$$

$$PR = \sqrt{(11-2)^2 + (3-3)^2} = \sqrt{81} = 9$$

Scalene triangle

8.

$$CE = EB$$

$$y + 12 = 2y$$

$$12 = y$$

$$CE = y + 12 = 12 + 12 = 24$$

$$9. m\angle BAD = m\angle CAD$$

$$(5x - 24)^\circ = (3x + 6)^\circ$$

$$2x = 30$$

$$x = 15$$

$$m\angle BAC = m\angle BAD + m\angle CAD$$

$$= (5x - 24)^\circ + (3x + 6)^\circ$$

$$= (5 \cdot 15 - 24)^\circ + (3 \cdot 15 + 6)^\circ$$

$$= 102^\circ$$

10.

$$43 > x + 35$$

$$43 - 35 > x + 35 - 35$$

$$8 > x$$

11.

$$-14 < x + 9$$

$$-14 - 9 < x + 9 - 9$$

$$-23 < x$$

12.

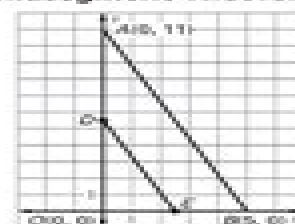
$$x + 26 \leq 54$$

$$x + 26 - 26 \leq 54 - 26$$

$$x \leq 28$$

### Lesson 5.1 Midsegment Theorem and Coordinate Proof

#### Investigating Geometry Activity for the lesson "Midsegment Theorem and Coordinate Proof"



Case 1

$$\text{Slope of } \overline{AB} = \frac{0-11}{5-0} = -\frac{11}{5}$$

$$\text{Slope of } \overline{DE} = \frac{0-4}{3-0} = -\frac{4}{3}$$

$$\text{Length of } \overline{AB} = \sqrt{(5-0)^2 + (0-11)^2} = \sqrt{100} = 10$$

$$\text{Length of } \overline{DE} = \sqrt{(3-0)^2 + (0-4)^2} = \sqrt{25} = 5$$

Case 2

$$\text{Slope of } \overline{AB} = \frac{0-11}{5-0} = -\frac{11}{5}$$

$$\text{Slope of } \overline{DE} = \frac{0-5.5}{2.5-0} = -\frac{11}{5}$$

$$\begin{aligned} \text{Length of } \overline{AB} &= \sqrt{(5-0)^2 + (0-11)^2} \\ &= \sqrt{146} \approx 12.08 \end{aligned}$$

$$\begin{aligned} \text{Length of } \overline{DE} &= \sqrt{(2.5-0)^2 + (0-5.5)^2} \\ &= \sqrt{36.5} \approx 6.04 \end{aligned}$$

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**DJ Losen**



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