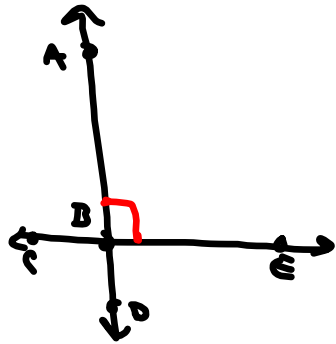


Section 1.9 Right Angles and Perpendicular Lines

Obj: Identify and use perpendicular lines

Identify what information can and cannot be assumed from a figure.

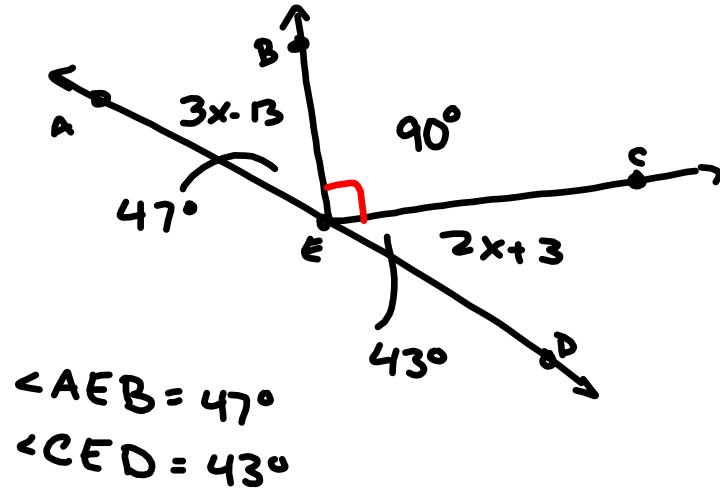
Perpendicular Lines - two lines whose intersection forms a right angle



$$\angle ABE = 90^\circ$$

$$\overleftrightarrow{AD} \perp \overleftrightarrow{CE}$$

$\angle ABE$ is a right angle



$$3x - 13 + 2x + 3 = 90$$

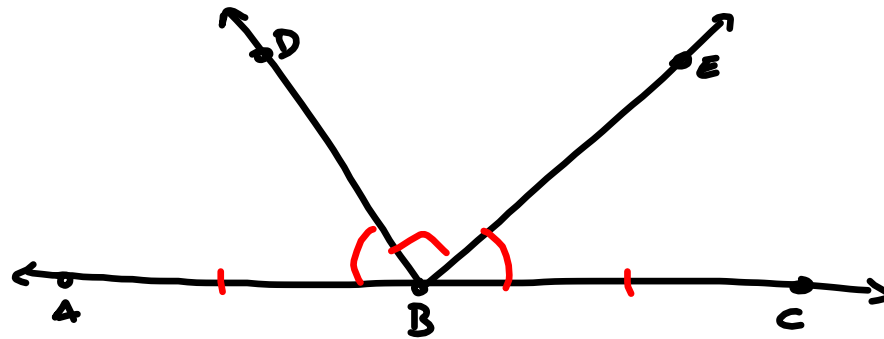
$$5x - 10 = 90$$

$$5x = 100$$

$$\boxed{x = 20}$$

$$3x - 13 + 2x + 3 + 90 = 180$$

$$\rightarrow 3x - 13 + 2x + 3 = 90$$



pg 59
1-4
pg 60
17-34

Can Conclude

- $\angle ABC$ is a straight angle
- Angles which appear adjacent, are adjacent
- Point B is between A and C
- A, B, and C are collinear
- A, B, C, D, E are all coplanar

Can't Conclude

- B is midpoint -
- $\angle ABD \cong \angle EBC$ -
- $\angle DBE$ is a right angle