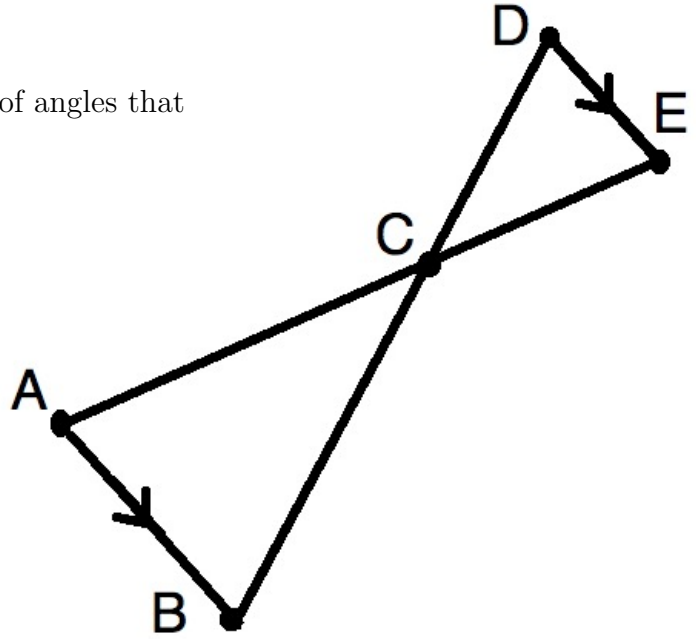


4. For the following questions consider the figure shown on the right.
 Note that \overline{AB} is parallel to \overline{DE} .



- (a) [2] (Wheater §7.3) Identify a pair of angles that have the same measures.

- (b) [1] Identify what kind of triangle $\triangle ABC$ is (acute? obtuse? right?).

- (c) [3] (Wheater §7.4) Given that:

$$\begin{aligned} \overline{AB} &= 21x, \overline{AC} = 30, \\ \overline{CE} &= 5, \overline{DE} = 3x + 1, \\ \overline{CB} &= 18, \overline{DC} = 3. \end{aligned}$$

Set up a true equation involving x that will allow you to solve for x .

- (d) [2] Find x from problem b above.