Name, Date, Hour:

Key

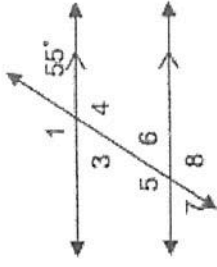Learning Target:

3.2: Use // lines & transversals

BOX 1 - Postulates & Theorems

If 2 // lines are cut by a transversal

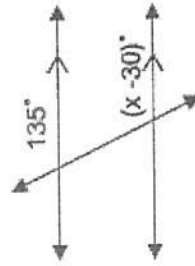| Corresponding Angles Postulate	then C.A. are ≅.
Alternate Interior Angles Theorem	then A.I.A. are ≅
Alternate Exterior Angles Theorem	then AEA are ≅
Consecutive Interior Angles Theorem	then SSIA are supp.

BOX 2 - Example 1

The measure of three of the numbered angles is 55°. Identify the angles. Explain your reasoning.

∠6 — CA

∠7 — AEA

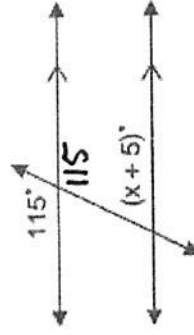∠3 — Vertical Angles

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BOX 3 - Example 2

Find the value of x.

$x - 30 = 135 \rightarrow$ Corr. ∠'s Post

$\boxed{x = 165}$

BOX 4 - Example 3

Find the value of x.

$x + 5 + 115 = 180 \rightarrow$ SSIA

$x + 120 = 180$

$\boxed{x = 60}$