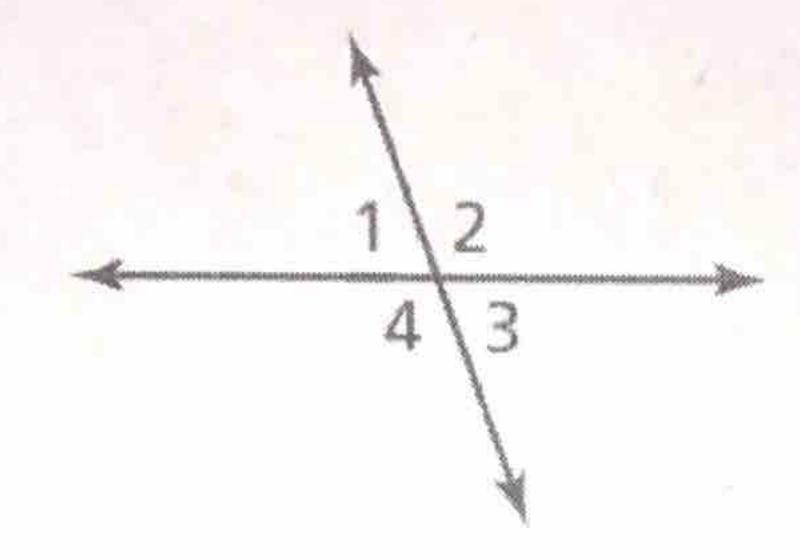
## 7.1 Adjacent and Vertical Angles

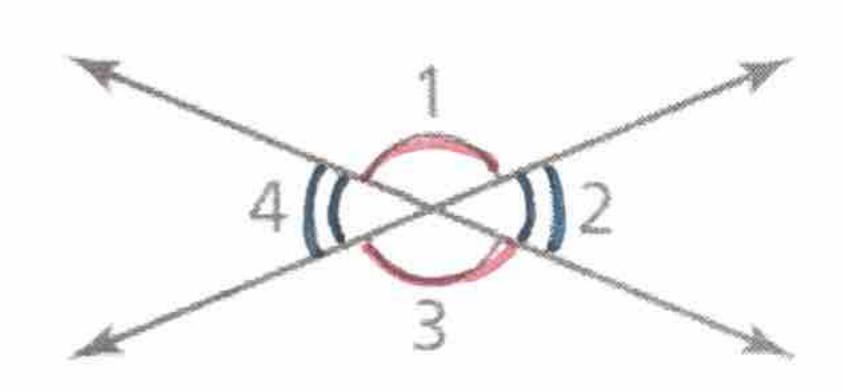
adjacent angles - 2 angles that share a common side and have the same vertex



∠1 and ∠2 are adjacent.

∠2 and ∠4 are not adjacent.

vertical angles - 2 angles that are opposite, formed by the intersection of 2 lines; vertical angles are always congruent (have the same measure)



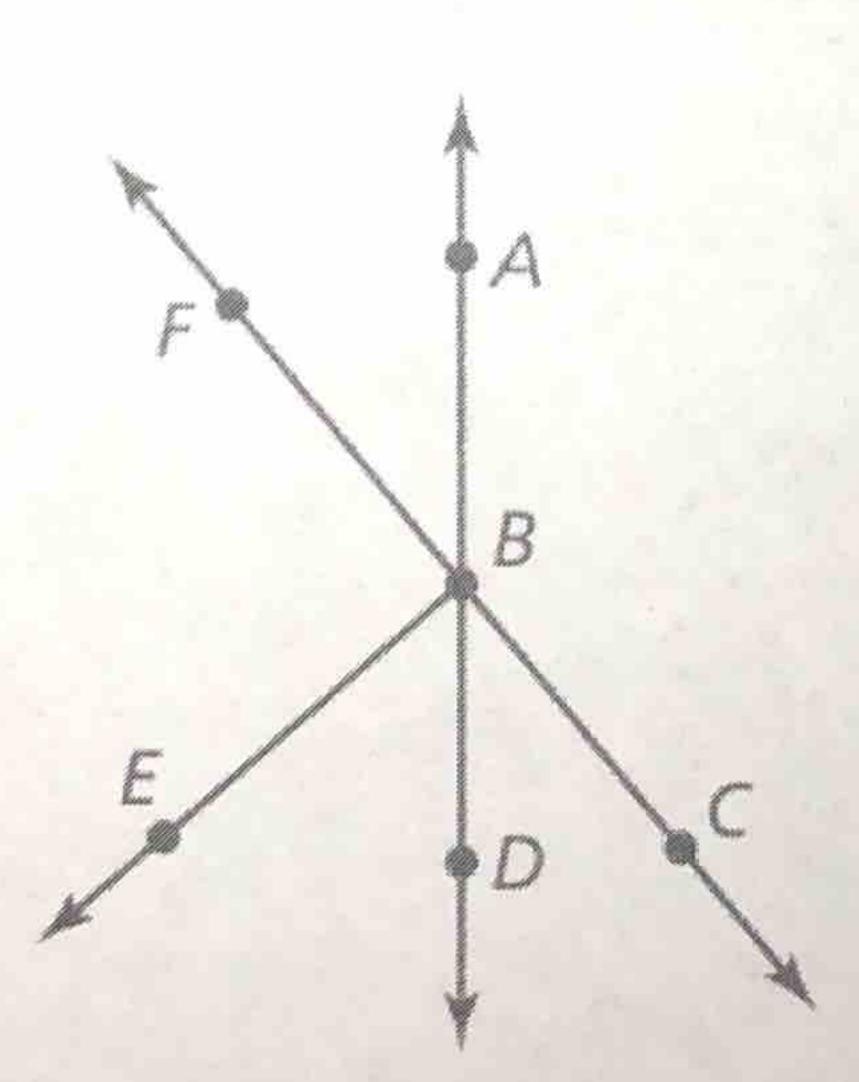
∠1 and ∠3 are vertical angles.

∠2 and ∠4 are vertical angles.

Ex: Name a pair of adjacent angles.

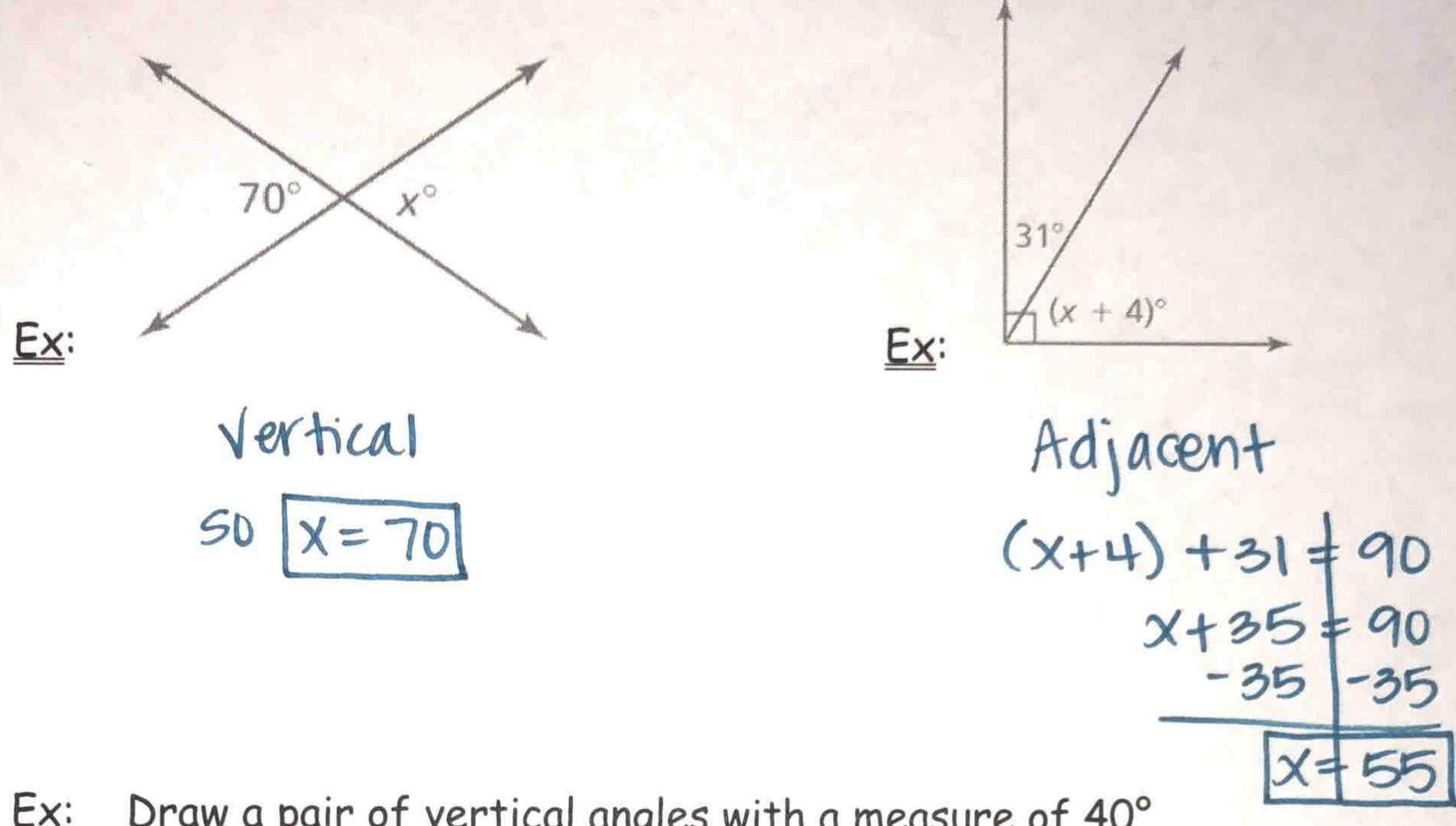
Ex: Name a pair of vertical angles.

LABE & LEBD LEBD & LDBC for example...

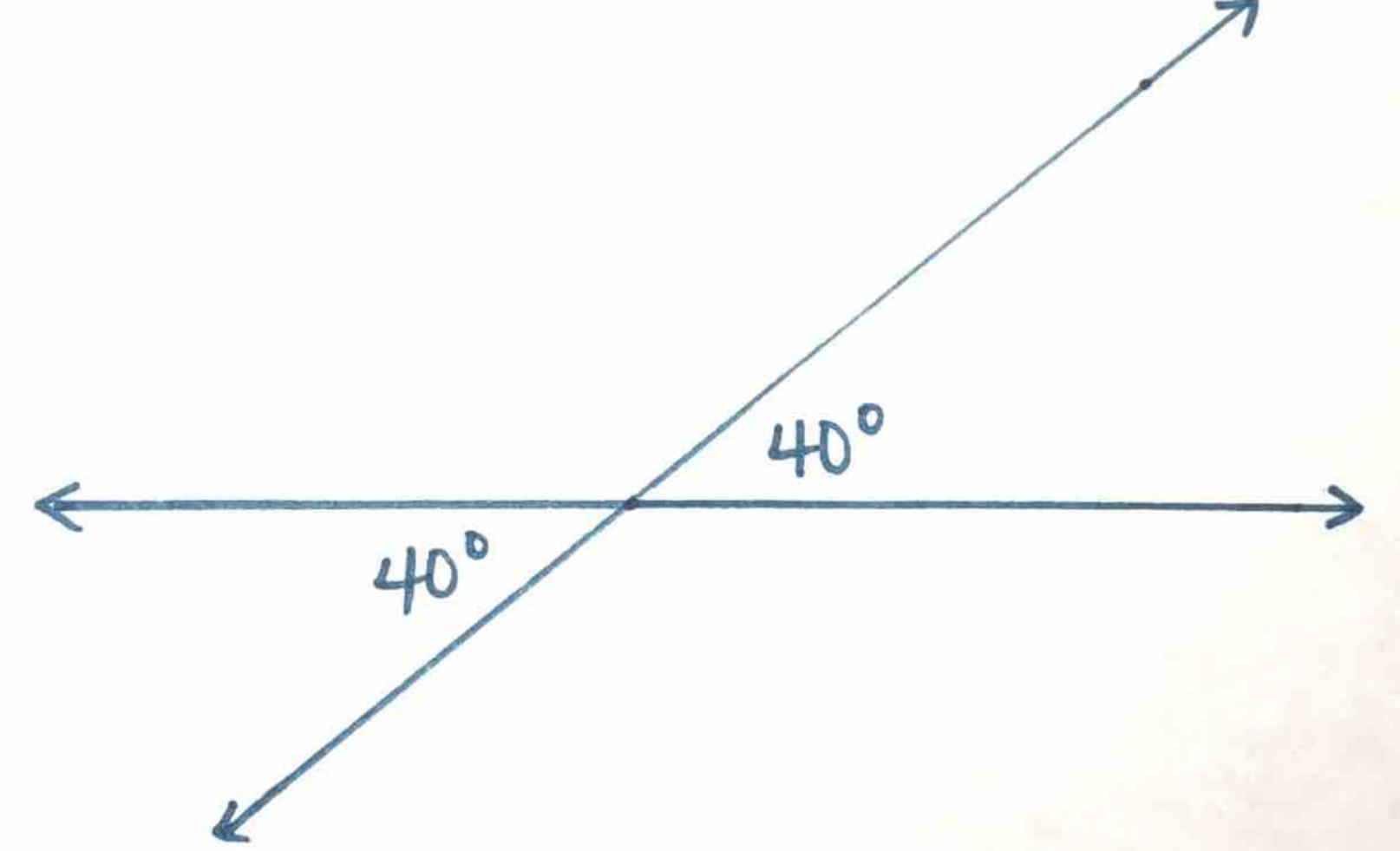


LFBA & LCBD

Tell whether the angles are adjacent or vertical. Then find the value of x.



Draw a pair of vertical angles with a measure of 40°.



Try These:

Tell whether the angles are adjacent or vertical. Then find the value of x.

