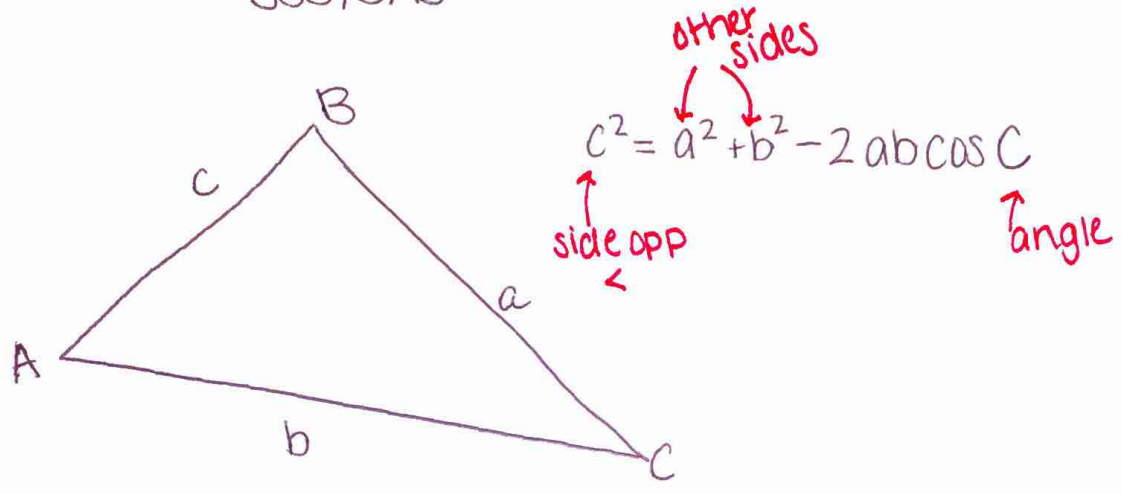


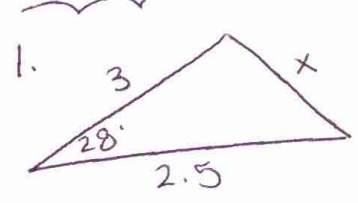
Law of Cosines

• Law of Sines works for:
SSA, ASA, AAS

• Law of Cosine works for:
SSS, SAS



examples

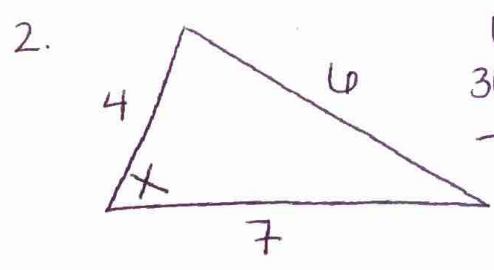


can't use LoS because not enough \angle s

$$x^2 = 3^2 + 2.5^2 - 2(3)(2.5) \cos 28$$

$$x^2 = 2.01$$

$$x = 1.42$$



$$6^2 = 4^2 + 7^2 - 2(4)(7) \cos X$$

$$36 = 16 + 49 - 56 \cos X$$

$$-29 = -56 \cos X$$

$$0.558 = \cos X$$

$$X = 56.1^\circ$$