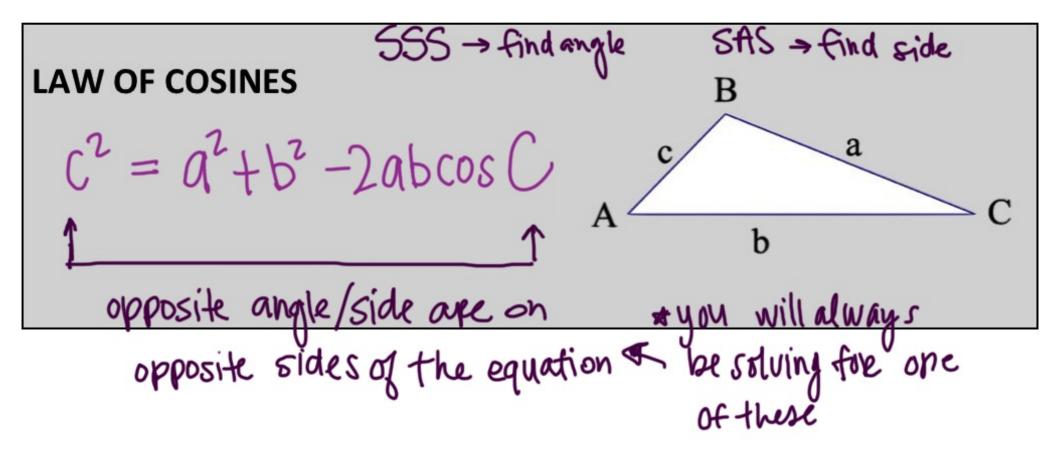
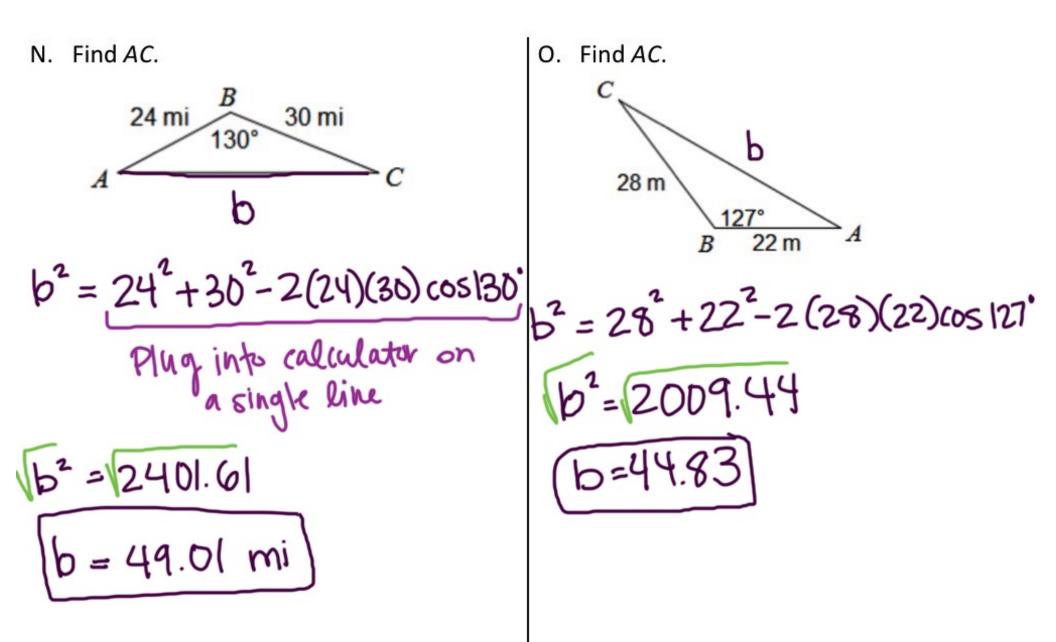
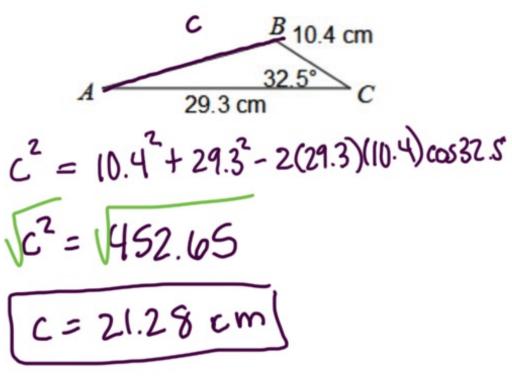
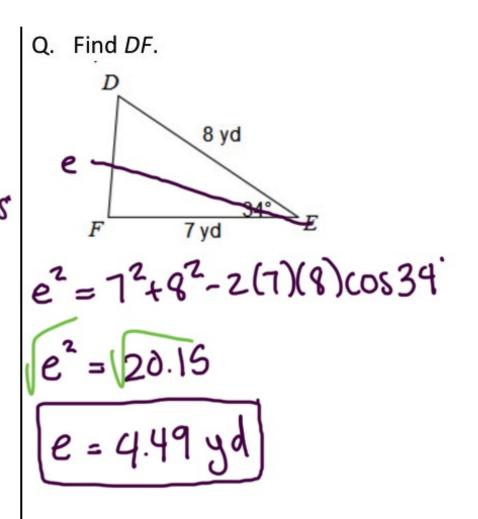
10.2 Law of Cosines



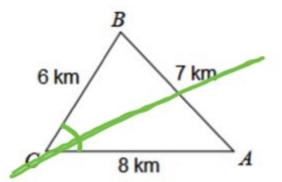








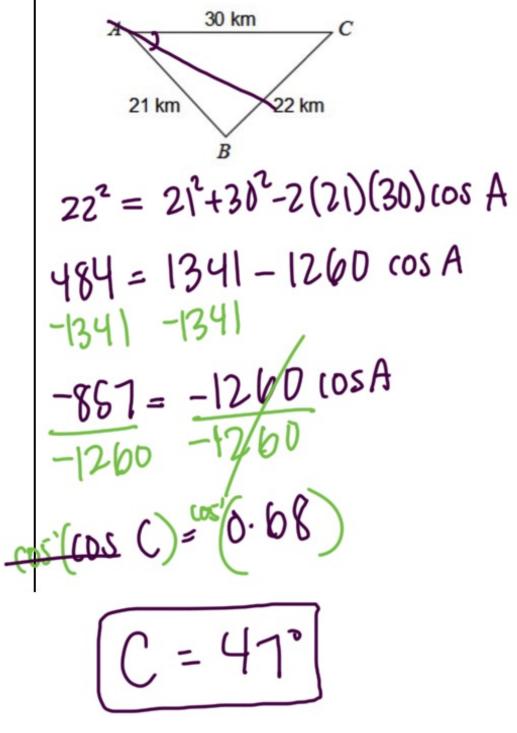
R. Find $m \angle C$.



$$7^2 = 6^2 + 8^2 - 2(6)(8)(05C)$$

 $49 = 100 - 96 \cos C$ -(00 - 100

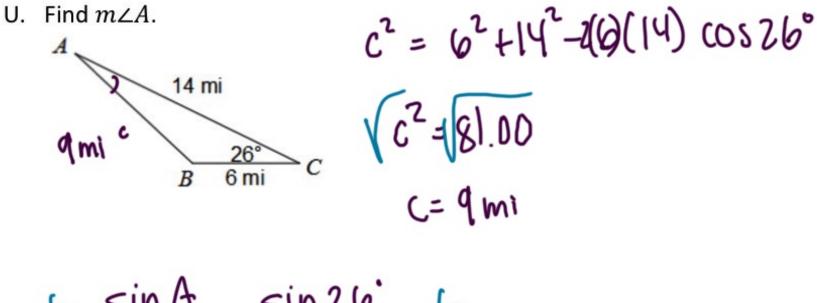
S. Find $m \angle A$.





Use the Law of Sines AND the Law of Cosines to find each measure indicated. If there is not enough information, write NEI.

T. Find $m \angle B$. SAS -> USE cosines to find c 25.7 $c^{2} = |4^{2} + |7^{2} - 2(|4)(|7) \cos |12^{6}$ 14 mi C2 = (0/03/01 17 mi C = 2575 miUse sines to find 2B $\frac{\sin B}{14} = \frac{\sin 112^{\circ}}{25.75}$ Sin- (Sin B)= (0.504) -> [B=



 $\frac{6}{1} \frac{\sin A}{6} = \frac{\sin 26}{9} \frac{6}{1}$

 $\frac{\sin(\sin A)}{A} = 0.292$ A = 17°

$\frac{1}{1} = \frac{1}{1} = \frac{1}$		LAW OF COSINES
$\frac{9}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$ Find side	a b c Find angle	$C^2 = a^2 + b^2 - 2ab \cos C$
Use when:	ting angle	Use when:
ASA Find side AAS 7		SSS → find angle
SSA -> find angle		SAS -> find side