BECA / Dr. Huson / 10th Grade Geometry Name: .
29 November 2018

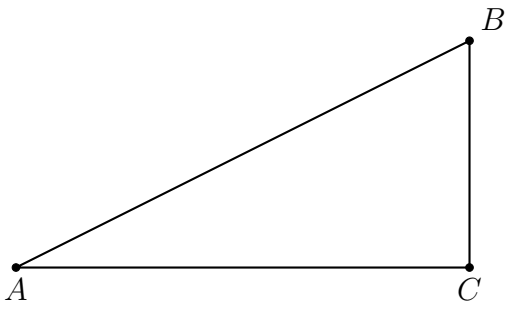
Do Now: Triangle angle relationships

1. Solve each equation for x, *rounded to the nearest thousandth.*

   (a) $\tan 32^\circ = \dfrac{x}{14.2}$

   (b) $\cos 32^\circ = \dfrac{14.2}{x}$

2. Given right $\triangle ABC$ with $m\angle C = 90^\circ$, $m\angle A = 32^\circ$, and $AC = 14.2$.



   (a) Find AB.

   (b) Find BC.

BECA / Dr. Huson / 10th Grade Geometry Name: .
29 November 2018

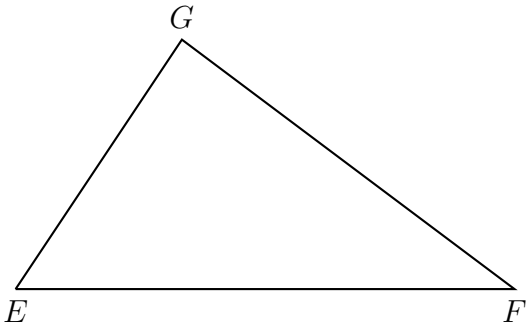
3. Given right $\triangle EFG$ with $m\angle G = 90°$, $EG = 3.3$, $FG = 5$, and $EF = 6$. Express each trig ratio as a fraction.

   (a) $\sin F =$

   (b) $\cos E =$

   (c) $\tan F =$

   (d) Spicy: Using guess and check, about how many degrees is $\angle F$?



4. Construct a triangle congruent to $\triangle ABC$ using the SAS postulate.