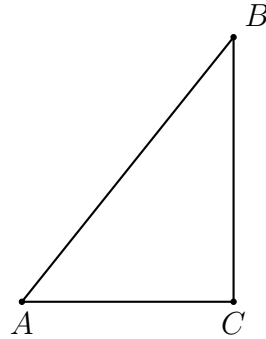


Do Now: Trigonometric ratios

Show each step, justify each by writing the name of a theorem to the right.

1. Given right $\triangle ABC$ with $AC = 4$, $BC = 5$, $AB = 6.4$, $m\angle C = 90^\circ$. Express each trig ratio as a fraction, then as a decimal to the nearest thousandth. (1a is an example)

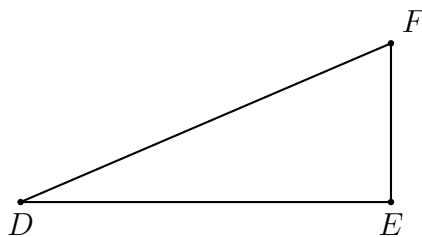


(a) $\sin A = \frac{5}{6.4} = 0.781$

(b) $\cos A =$

(c) $\tan A =$

2. Given right $\triangle DEF$ with $DE = 7$, $EF = 3$, $DF = 7.6$, $m\angle E = 90^\circ$. Express each trig ratio as a fraction, then as a decimal to the nearest thousandth.



(a) $\sin F =$

(d) $\sin D =$

(b) $\cos F =$

(e) $\cos D =$

(c) $\tan F =$

(f) $\tan D =$

Classwork: Use a calculator for trig ratio

3. Express the result to the nearest thousandth.

(a) $\sin 30^\circ =$

(d) $\sin 57^\circ =$

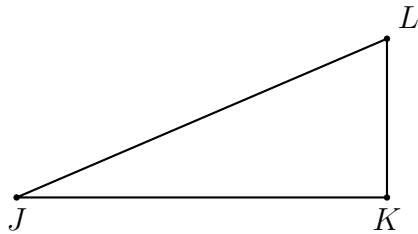
(b) $\cos 45^\circ =$

(e) $\cos 23^\circ =$

(c) $\tan 60^\circ =$

(f) $\tan 81^\circ =$

4. Given right $\triangle JKL$ with $\overline{JK} \perp \overline{KL}$, $JL = 10$, $m\angle J = 25^\circ$.



(a) Find the length JK

(b) Find the length KL