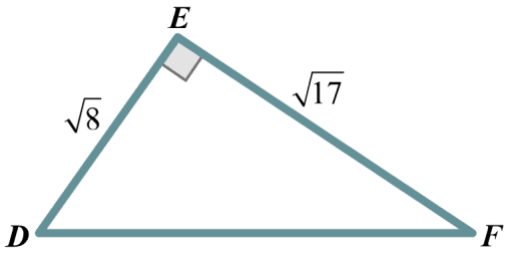
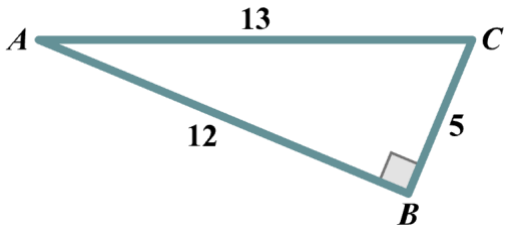
USING TRIG RATIOS

1) In ΔDEF shown below, $\overline{DE} = \sqrt{8}\,cm$ and $\overline{EF} = \sqrt{17}\,cm$. What is $\cos(F)$?



2) The lengths of 3 sides of a right triangle ΔABC, which is shown below, are all given in feet.



Which ratio has the value of $\frac{12}{13}$?

(a) $sin(A)$

(b) $sin(C)$

(c) $cos(B)$

(d) $cos(C)$

(e) $tan(A)$

(f) $tan(C)$

3) For an angle with measure θ in a right triangle, $\sin\theta = \frac{\sqrt{15}}{8}$ and $\cos\theta = \frac{7}{8}$. What is the value of $\tan\theta$?

4) In ΔLMN shown below, the length of $\overline{LM}$ is 8 inches and $\sin(N) = \frac{2}{3}$. What is the length, in inches, of $\overline{LN}$?