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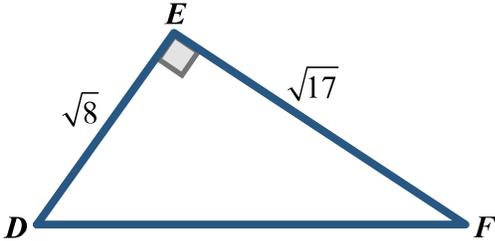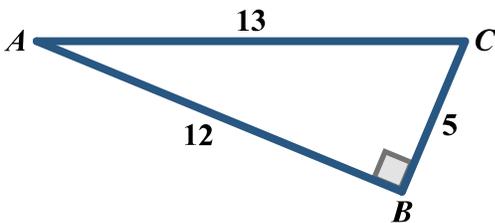
1) In $\triangle DEF$ shown below, $\overline{DE} = \sqrt{8}\ cm$ and $\overline{EF} = \sqrt{17}\ cm$. What is $\cos(F)$?

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

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

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

  (a) $sin(A)$

  (b) $sin(C)$

  (c) $cos(B)$

  (d) $cos(C)$

  (e) $tan(A)$

  (f) $tan(C)$

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