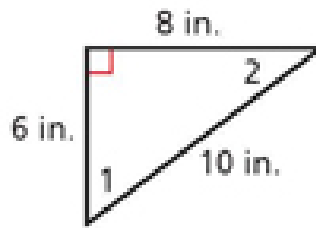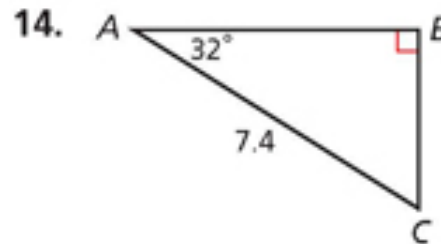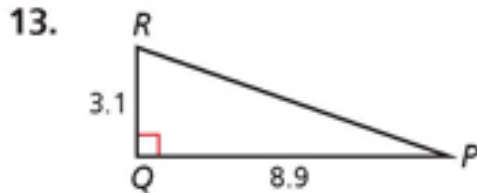8.3 Homework p. 555 #1, 13-14, 39, 41, 43, 48, 54, 56, 62, 69

Use the trigonometric ratio to determine which angle of the triangle is <A

1) $\sin A = \dfrac{4}{5}$

8 in.

2

6 in.

1

10 in.

13-14 Find the unknown measures. Round lengths to the nearest hundredth and angle measures to the nearest degrees.

13. R

3.1

Q   8.9   P

14. A   B
        32°

        7.4

                C

39-41 Complete each statement. If necessary, round angle measures to the nearest degree. Round other values to the nearest hundredth.

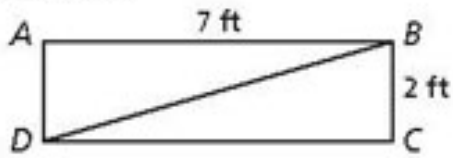39)   tan_____ ≈ 3.5   41)   _____ 42° ≈ .74   43) $\sin^{-1}($? $) \approx 69$

48) The side lengths of a right triangle are given below. Find the measure of the acute angles in the triangle. Round to the nearest degree.
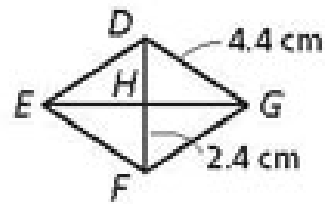
3, 4, 5

54, 56 Find the indicated measure in the rectangle or rhombus. Round to the nearest degree.
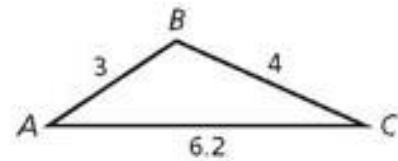
54. m∠BDC

56. m∠DGF

62. ///**ERROR ANALYSIS**/// A student was asked to find m∠C. Explain the error in the student's solution.

Since $\tan C = \frac{3}{4}$, $m\angle C = \tan^{-1}\left(\frac{3}{4}\right)$, and $\tan^{-1}(0.75) \approx 37°$. So $m\angle C \approx 37°$.

69. Find the angle measure. Round to the nearest degree.

m∠J