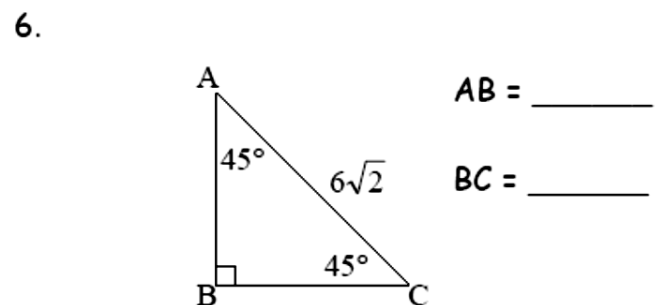
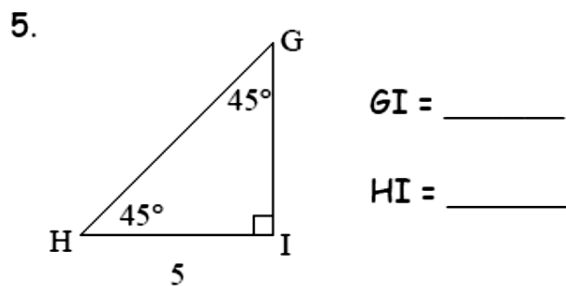
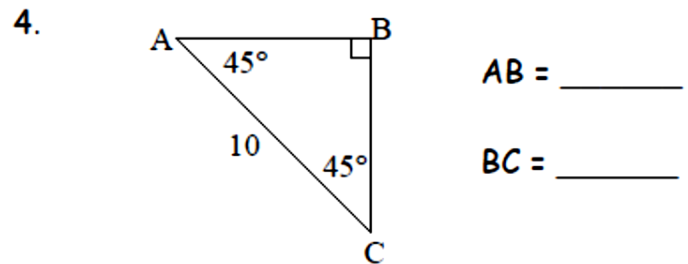
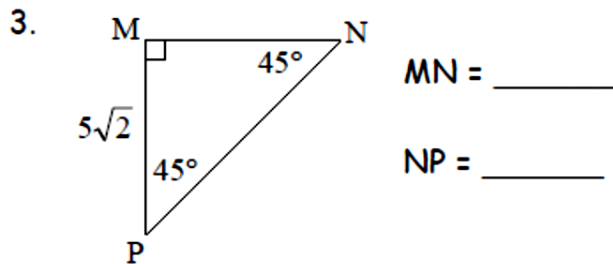
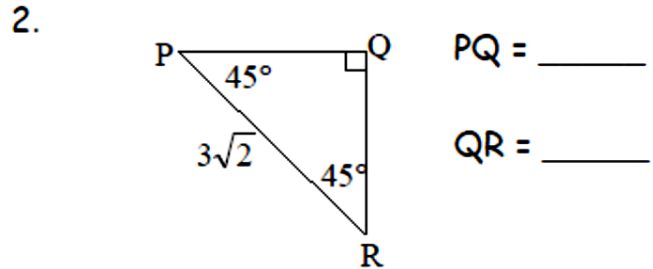
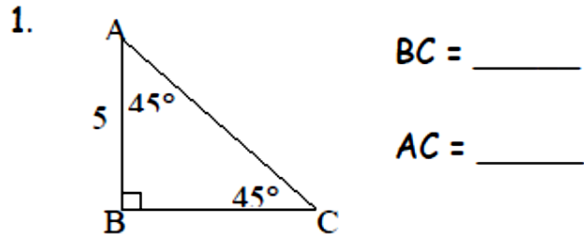


Unit 5: Right Triangle Trigonometry
Day 2 Worksheet: 45°- 45°- 90° Triangle

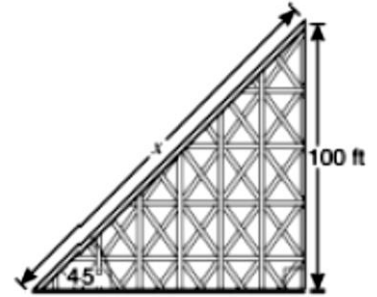
Name: _____

Date: _____ Hour: _____

Find the lengths of the indicated sides. **SHOW ALL WORK.**



7. Matt wants to design the first section of a roller coaster track. He wants the ramp section to rise at 45° with the horizontal and connect at the top of a segment 100 feet high. Find x , the length of the ramp Matt needs to complete his section of the coaster track?



8. A square has a perimeter of 32 inches. How long is the diagonal?
9. A square has side lengths of 23 inches. How long is each diagonal?
10. Sam's square bedroom has a diagonal of $9\sqrt{2}$ feet. What is the length of each side?