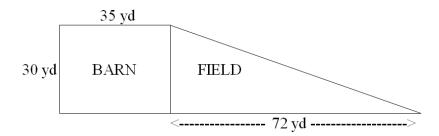
Na	ame	Date	Per
Algebra: Pythagorean Theorem Story Problems			
Fo	or each of the following story problems: 1. Draw and label a diagram 2. Write and solve an equation (using the Pythagorea 3. Show all work and steps 4. Give exact and approximate solutions to the soluti 5. Answer the problem's question in a sentence	·	orem
1.	Jill's front door is 42" wide and 84" tall. She purchased diameter. Will the table fit through the front door?	d a circular table t	hat is 96 inches in
2.	To get from point A to point B you must avoid walking walk 34 meters south and 41 meters east. To the <i>near</i> it were possible to walk through the pond?		-
3.	Two joggers run 8 miles north and then 5 miles west. Nearest tenth of a mile, they must travel to return to t		

4. Oscar's dog house is shaped like a tent. The slanted sides are both 5 feet long and the bottom of the house is 6 feet across. What is the height of his dog house, in feet, at its tallest point?

5. Farmer Brown wants to put a fence around a triangular shaped field. A rectangular barn is directly next to the field. A diagram is below:



Farmer brown is not going to put fencing along the side of the field that is right next to the barn, but will along the other two sides. The fencing will cost him \$3.79 per foot. What will be the cost of the fencing? Show all work.

6. In the diagram, AEB is straight and angles A and B are right.

Calculate the total distance DE + EC.

