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Solar Contractor C46 Exam Preparation Course

Diablo Valley College

AET 150F-8561

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Solar Thermal Quiz October 3, 2009

1. Which is a typical example of a passive solar thermal system?
 - a. Closed loop antifreeze
 - b. Draindown
 - c. Thermosiphon
 - d. Drainback
2. Which type of solar thermal technology uses the absence of air as an insulator?
 - a. Heat exchanger technology
 - b. Flat plate
 - c. Evacuated tube
 - d. PV integrated solar thermal hybrid
3. How much does a gallon of water weigh?
 - a. 10 pounds
 - b. 20 pounds
 - c. Half kilogram
 - d. 8.3 lbs.
4. The heat loss of a pool is proportional to:
 - a. Surface area
 - b. Depth
 - c. Height
 - d. Length
5. Given that there are about 7.5 gallons per cubic foot & a cubic foot of water weighs about 62 pounds, how much would the water in a 4 foot diameter & 4 foot deep hot tub weigh if it was full to the top? Hint: 3.14 is pi & pick the closest answer.
 - a. 50 lbs
 - b. 500 lbs
 - c. 3100 lbs
 - d. 5000 lbs