APPLIED MATHEMATICS

Dawson College: Linear Algebra: 201-912-DW 01		September 24, 2010
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Quiz 2

Question 1. (4 marks) The weight of gold is 1206 pounds per cubic foot (1206 lb / ft³).

- (a) Convert this weight to kg per cubic cm.
- (b) Convert this weight to pounds per cubic inch.

Question 2. (4 marks) Solve the right triangle with sides a=32.5 cm and b=24.2 cm (c is the hypotenuse).

Question 3. (4 marks) Evaluate the following without a calculator: (a) $\tan 60^{\circ}$

(b) $\csc(\pi/4)$

Question 4. (6 marks) Find θ given (use the correct number of significant figures): (a) $\sec \theta = -1.662$ and $0^{\circ} \le \theta < 360^{\circ}$.

(b) $\tan \theta = -0.29$, $\sin \theta > 0$ and $0 \le \theta < 2\pi$.