

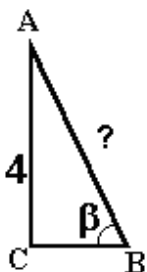
**Math Review Session
Placement Test**

6-15-2009

Name _____

1. Find the degree measure of angle with radian measurement $\frac{\pi}{3}$

2. In a right triangle ABC, angle C is the right angle, side AC = 4 and $\sin(\beta) = 0.8$. Find the length of the side AB



3. Solve the equation: $x^2 - x - 6 = 0$

4. Solve the equation: $(x - 1)(x + 2) + 3x = 10$

5. Find the slope of the line: $y = 8x - 7$

6. Find slope of the line: $3x - 5y = 1$

7. Let $f(x) = e^x$. Evaluate $f(0)$

8. Find absolute value of the vector: $\mathbf{v} = (3, -4)$

9. Calculate dot product of the vectors: $\mathbf{v} = (4, -4)$ and $\mathbf{u} = (4, 4)$

10. Find the value of the determinant: $\begin{vmatrix} 1 & 2 \\ 3 & 4 \end{vmatrix}$

11. Find the value of the determinant: $\begin{vmatrix} 1 & 1 & 0 \\ 3 & 1 & 2 \\ 5 & 4 & 3 \end{vmatrix}$