

Math 70 Quiz #5
October 28, 2008

Name: _____

Show all work. No calculators are permitted on this quiz.

1. (3 pts.) Simplify $2[3t + 4(t - 1)]$.
2. (1 pts.) Evaluate $3x^2 - 1$ for $x = 2$.
3. (1 pts.) Is $x = -3$ a solution to $5 + x = -2$?
4. (1 pts.) Is $x = 5$ a solution to $7 + 2 = x + 4$?
5. (4 pts.) You buy fabric to make a triangular sail that will have an altitude of 10 feet and a base of 12 feet. If the material costs \$3 per square foot, how much will it cost for all of the fabric?

(Note: The area of a triangle is given by $A = \frac{1}{2}ab$ with altitude = a and base = b .)