

Name \_\_\_\_\_

- Put away all calculators, cell phones, iPods, etc.
- You have 10 minutes for this quiz.

1. (4 points) Given that  $f(x) = \frac{1}{4} \ln(2x - 5)$ , find a formula for  $f^{-1}(x)$ .

2. (3 points) Simplify the expression  $\cos(\sin^{-1}(2x))$ .

3. (3 points) Which one of the choices below equals  $\lim_{x \rightarrow 5^-} \frac{10 + x^2}{5 - x}$  ?

- (a)  $-\infty$
- (b)  $-10$
- (c)  $-5$
- (d)  $-2$
- (e)  $0$
- (f)  $2$
- (g)  $5$
- (h)  $10$
- (i)  $\infty$