No notes, books, cellular devices or graphing calculators are to be used.

1. (0.4 #31) Find the intersection points of the curves $y = 2x^2 - 5x - 6$ and $y = 3x + 4$.

2. (0.5 #20, 47) Use the laws of exponents to compute the number or simplify the algebraic expressions accordingly. Your answer should not involve parenthesis or negative exponents.

(a) $\left(\frac{1}{2}\right)^{-1}$

(b) $(27)^{2/3}$

(c) $\left(\frac{x^4}{y^2}\right)^3$

(d) $\sqrt[3]{x} \cdot \sqrt[3]{x^2}$
3. (0.6 #7) Consider the rectangle whose height is three times its width.

(a) Write an expression for the perimeter.

(b) If the area is 25 square feet, write this fact as an equation.