

Show all work for problems 3–5; use the back of the sheet if necessary.

1. **(4 points)** Answer the following form-conversion problems
 - (a) **(2 points)** Express the interval $(-2, 5]$ in terms of inequalities.

 - (b) **(2 points)** Express the inequality $x > -1$ in interval notation.

2. **(2 points)** Evaluate the expression $4^{-3/2}$.

3. **(3 points)** Simplify the rational expression $\frac{x}{x+2} - \frac{3}{2x-1}$.

4. **(3 points)** Expand the polynomial $2x^3 - (x^2 - x)(x + 2)$.

5. **(3 points)** Using any method you like, solve the equation $x^2 - 3x = 6$.