Draw a box around your final answers. No partial credit will be given.

- 1. Find the derivative of the function: $f(x) = 5x^2 3x + 7$
- 2. Find the derivative of the function: $f(x) = 3\sqrt{x}$

3. Let $f(x) = 2x^3 - 4x$. Find f'(-2).

4. Find the derivative of the function: $f(t) = \frac{4}{t^4} - \frac{3}{t^3} + \frac{2}{t}$

5. Find the derivative of the function: $f(x) = 2x(x^2 + 1)$

6. Find the derivative of the function:
$$f(x) = (3x+1)(x^2-2)$$
 [2 lines]

7. Find the derivative of the function:
$$f(s) = \frac{s^2 - 4}{s + 1}$$
 [2 lines]

8. Find the derivative of the function:
$$f(x) = (2x-1)^3$$
 [2 lines]

9. Find the derivative of the function:
$$f(x) = (x^2 + 1)^3 - (x^3 + 1)^2$$
 [2 lines]

10. Find the derivative of the function:
$$f(x) = \left(\frac{x+3}{x-2}\right)^3$$
 [2 lines]