Increasing and Decreasing

1. $f(x) = 2x^3 - 14$. Where is the function f(x) increasing and where is it decreasing?

2. $f(x) = 2x^3 + \dfrac{7}{2}x^2 - 3x + 4$. Where is the function f(x) increasing and where is it decreasing?

3. $f(x) = e^{(3x^2 - 2x)}$. Where is f(x) increasing and where is f(x) decreasing?