Circle the correct answer. Messy work will not be graded.

1. \( \lim_{x \to 0} \frac{\cos x + 2x - 1}{3x} = \)
   \((a)\) 2/3; \((b)\) −2/3; \((c)\) 1; \((d)\) 0

2. \( \lim_{x \to \frac{\pi}{2}} \frac{4 \tan x}{1 + \sec x} = \)
   \((a)\) 1; \((b)\) 0; \((c)\) 4; \((d)\) 2

3. \( \lim_{x \to 0^+} \left( \frac{1}{e^x - 1} - \frac{1}{x} \right) = \)
   \((a)\) \(\infty\); \((b)\) \(-1/2\); \((c)\) 0; \((d)\) 1/2

4. Use Newton’s method to approximate \(\sqrt{7}\). Use the intermediate value theorem to find a good guess.

5. Evaluate \( \int \frac{(x^2 - 1)^2}{x^2} \, dx \)