Name: _____

Signature: _____

Show all work clearly and in order, and box your final answers. Justify your answers whenever possible. You have 20 minutes to take this 10 point quiz.

Do only one of the following two problems.

1. $\boxed{10 \text{ points}}$ Evaluate.[1] You must show work!

$$\int_1^4 \sin \sqrt{x} \; \mathrm{d}x$$

2. $\boxed{10 \text{ points}}$ Integrate. You must show work!

$$\int_{-1}^1 \frac{2x^3 - 4x^2 - 15x + 5}{x^2 - 2x - 8} \; \mathrm{d}x.$$

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[1]First make a simple u-substitution where $u = \sqrt{x}$, then use integration by parts.