$$\frac{1}{3}(n+1)(n-2)-s = \Theta(n^2)$$

$$C_1 n^2 \leq \frac{1}{3}(n^2-n-2)-s \leq C_1 n^2$$

$$C_1 n^2 \leq \frac{1}{3}(n^2-n-2)-s \leq C_2 n^2$$

$$C_2 = 1$$

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$$C_3 n^2 \leq \frac{1}{3}(n^2-n-2)-s \leq C_2 n^2$$

$$C_4 n^2 = \frac{1}{3}(n^2-n-2)-s \leq C_2 n^2$$

$$C_5 n^2 = \frac{1}{3}(n^2-n-2)-s \leq C_2 n^2$$

$$C_6 n^2 = \frac{1}{3}(n^2-n-2)-s \leq C_2 n^2$$

$$C_7 n^2 = \frac{1}{3}(n^2-n-2)-s \leq C_7 n^2$$

$$|gn| = \Re(n)gn$$

