These are alleged answers. For each error herein, you get extra-credit points for being the first to report it by e-mail.

1 (a) $\boldsymbol{2x+5\Big|_{x=5}^{x=3} = -4}$ (c) $\boldsymbol{x-A\Big|_{x=-a}^{x=A+a} = 2a+A}$

(b) $\boldsymbol{2x+5\Big|_{x=-4}^{x=2} = 12}$ (d) $\boldsymbol{8-3x\Big|_{1/5}^{3/10} = -3/10}$

2 (a) $\boldsymbol{x^2-2x\Big|_{x=-A}^{x=A} = -4A}$ (c) $\boldsymbol{x^2-5280\Big|_{x=a+b-c}^{x=a-b-c} = 4b(c-a)}$

(b) $\boldsymbol{x^2-2x\Big|_{x=A-B}^{A+B} = 4B(A-1)}$ (d) $\boldsymbol{x^2-5280\Big|_{x=2A-3B}^{x=3A-2B} = 5(A^2-B^2)}$

3 (a) $\boldsymbol{\dfrac{1}{x}\Big|_{x=A^2-A-12}^{x=A^2-9} = \dfrac{1}{(A+3)(A-3)(A-4)}}$

(b) $\boldsymbol{\dfrac{1}{x}\Big|_{x=A/B}^{x=B/A} = \dfrac{A^2-B^2}{AB}}$

4 (a) $\boldsymbol{Ax^2\Big|_{x=AB^{-1}}^{x=A^{-1}B} = \dfrac{B^4-A^4}{AB^2}}$ (b) $\boldsymbol{64^x\Big|_{x=1/6}^{x=2/3} = 12}$