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) \[2x + 5 \bigg|_{x=5}^{x=3} = -4\]  (c) \[x - A \bigg|_{x=-a}^{x=a+a} = 2a + A\]
   (b) \[2x + 5 \bigg|_{x=-4}^{x=2} = 12\]  (d) \[8 - 3x \bigg|_{1/5}^{3/10} = -3/10\]

2  (a) \[x^2 - 2x \bigg|_{x=-A}^{x=A} = -4A\]  (c) \[x^2 - 5280 \bigg|_{x=a-b-c}^{x=a+b-c} = 4b(c - a)\]
   (b) \[x^2 - 2x \bigg|_{x=A-B}^{x=A+B} = 4B(A - 1)\]  (d) \[x^2 - 5280 \bigg|_{x=2A-3B}^{x=3A-2B} = 5(A^2 - B^2)\]

3  (a) \[\frac{1}{x} \bigg|_{x=A^2-A-12}^{x=A^2-9} = \frac{1}{(A + 3)(A - 3)(A - 4)}\]
   (b) \[\frac{1}{x} \bigg|_{x=A/B}^{x=B/A} = \frac{A^2 - B^2}{AB}\]

4  (a) \[Ax^2 \bigg|_{x=AB^{-1}}^{x=A^{-1}B} = \frac{B^4 - A^4}{AB^2}\]  (b) \[64^x \bigg|_{x=1/6}^{x=2/3} = 12\]