

Name:	A#:
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1. A poster is to have an area of 180 square inches, with 1-inch margins at the bottom and sides and a 2-inch margin at the top. What dimensions will give the largest printed area?

2. Find the point on the line $y = 9 - 6x$ that is closest to the point $(-3, 1)$.

3. Give an expression, in terms of a limit, for the area under the curve $y = \sqrt{2 + x}$ between $x = 2$ and $x = 7$. Express A as a limit.