AP Calculus with TI-NSPIRE Technology

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TI-Nspire Important Key Strokes

Insert Page	[ctrl] [doc ▾] or [ctrl] [I]
Next Page	[ctrl] [▶] … [▶]
Previous Page	[ctrl] [◀] … [◀]
Move to Next Screen	[ctrl] [tab]

Differentiate	[⇧shift] [−]
Definite Integral	[⇧shift] [+]

Graph entry line	[ctrl] [G] or [tab]
Context Menu (Right Click)	[ctrl] [menu]
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Variables	[var]
Catalog	[📖]
Symbols	[ctrl] [📖] … [∞β°]
Vinculum	[ctrl] [÷] … [▯/▯]
Approximate	[ctrl] [enter] … [≈]

Undo	[ctrl] [Z]
Save	[ctrl] [S]
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The Ambiguous Case
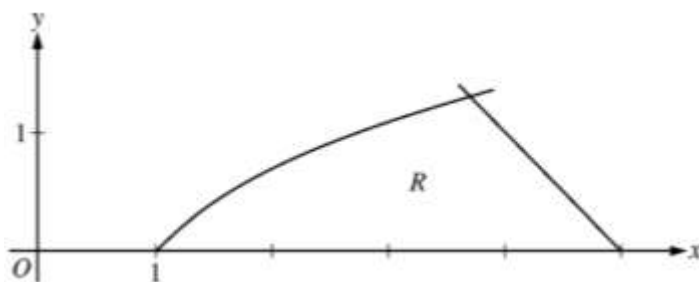
Solve the triangle:
$$a = 20, \quad b = 30, \quad \angle A = 34°$$

$$0 = c^2 - 2(30)\cos 34° \, c + 30^2 - 20^2$$

$$\cos B1 = \frac{b^2 - a^2 - c1^2}{-2a \cdot c1}$$

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2. Let R be the region in the first quadrant bounded by the x-axis and the graphs of $y = \ln x$ and $y = 5 - x$, as shown in the figure above.
   (a) Find the area of R.

$$Area = \int_{1}^{a} \ln x \, dx + \int_{a}^{5} (5 - x) \, dx = \int_{0}^{b} \left((5 - y) - (e^y)\right) dy$$