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HD-mirni-i-siloviti-tok

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Print Worksheet Edit Text Revisions Share Publish File... ▼ Action.. ▼ Data... ▼ sage ▼ □ Typeset Energija presjeka  $E_s$ def Es(B, Q, y): return  $y + Q^2 / (2 * 9.81 * B^2 * y^2)$ Kritična dubina  $y_c$ def yc(B, Q): return  $(Q^2 / (9.81 * B^2))^(1/3)$ yc(0.4, 0.2) 0.294277461066803 Kritična energija  $E_c$ def Ec(B, Q): return Es(B, Q, yc(B, Q)) Ec(0.4, 0.2) 0.441416191600204 Asimptota za  $y \gg y_c$ def A1(y): return y Asimptota za  $y \ll y_c$ def A2(B, Q, y): return Q^2 /(2 \* 9.81 \* B^2 \* y^2)

http://localhost:8000/home/admin/7/

```
y = var('y')
```

 $plotA1 = plot(A1(y), (y, 0.0, 1.5), color = 'green', legend_label = 'asimptota za <math>y \ge y_c', linestyle = '--'$ 

| plotA2 = plot(A2(0.4, 0.2, y), (y, 0.0, 1.5), color = 'brown', legend\_label = 'asimptota za \$y \ll y\_c\$', linestyle = '--')

 $| plotEs = plot(Es(0.4, 0.2, y), (y, 0.0, 1.5), legend_label = 'energija presjeka $E_s$')$ 

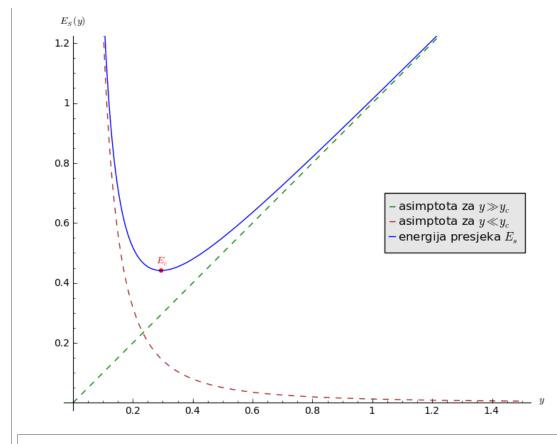
pointEc = point((yc(0.4, 0.2), Es(0.4, 0.2, yc(0.4, 0.2))), color = 'red', pointsize = 20)

textEc = text('\$E\_c\$', (0.3, 0.47), color = 'red')

show(plotA1 + plotA2 + plotEs + pointEc + textEc, aspect\_ratio = 1, xmax = 1.5, ymax = 1.2, axes\_labels = ('\$y\$', '\$E\_S(y)\$'))

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evaluate



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