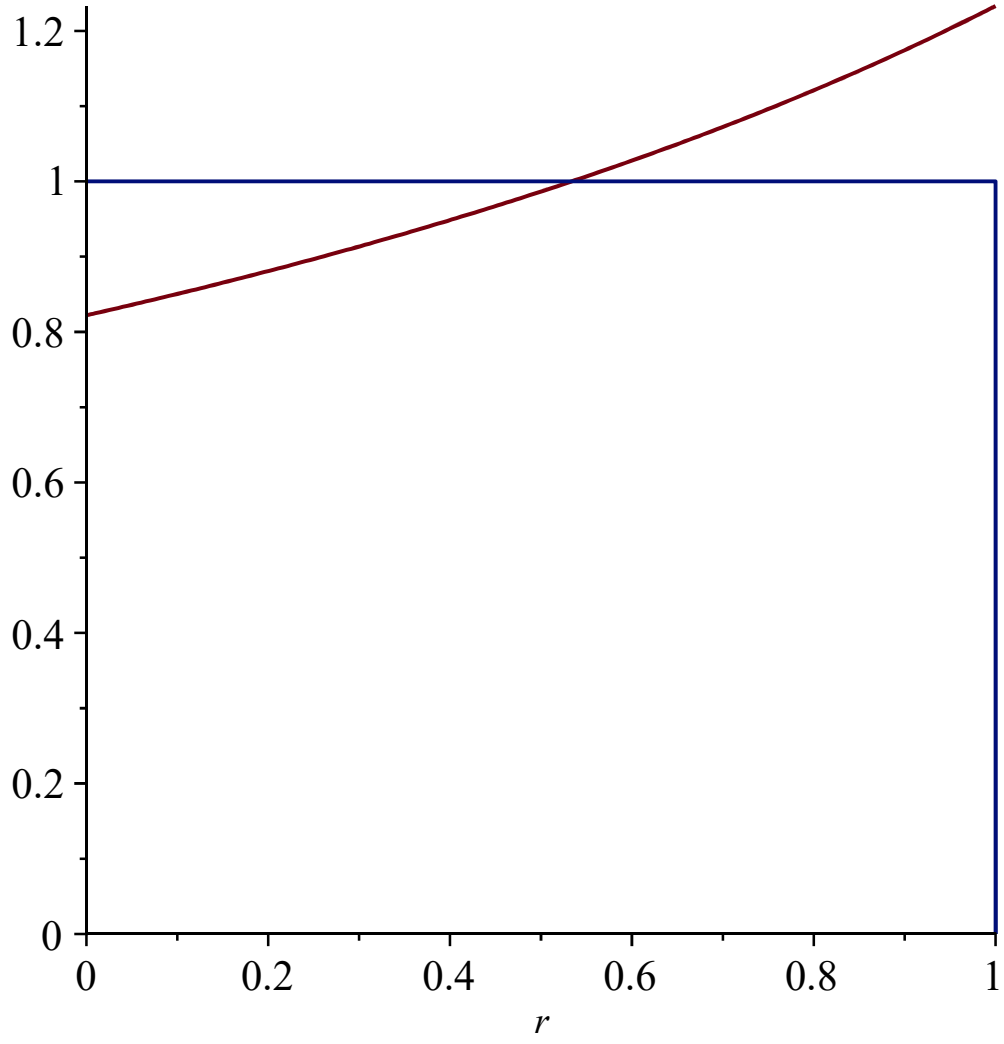
```
> restart;
  with(plots):
  with(Statistics):
> CA := RandomVariable(Uniform(0, 1));
```

$$CA := \_R \tag{1}$$

```
> p(limit(r, pZ = 0, right)) := limit((-1/((-3*log(6)) + (-log(4)*r) + 3*log(4) + log(6)
      *r)*piecewise((-1) + r < pZ, 1, 0)*piecewise((-1/((-3) + r)) + (-1/2) < pZ, 1, 0)
      *piecewise((-r) < pZ, 1, 0)*piecewise(abs((-1/((-3) + r)*r) + 1 + 1/((-3) + r)
      *3) < pZ, 1, 0)), pZ = 0, right);
```

$$p(r) := -\frac{(1 - \text{Heaviside}(-1 + r))\,\text{Heaviside}\left(\frac{1}{-3 + r} + \frac{1}{2}\right)\text{Heaviside}(r)}{-3\ln(6) - 2\ln(2)\,r + 6\ln(2) + \ln(6)\,r} \tag{2}$$

```
> plot([p(r), PDF(CA, r)], r = 0..1)
```




```
>
>
>
```