

```

>
> exact := ExactPD(20, 40, 19/40)
              exact := [0.1190277811, 304.7777751] (1)
> `P(Winning) = 0.1190277811, Expected # of rounds: 304.7777751`
              P(Winning) = 0.1190277811, Expected # of rounds: 304.7777751 (2)
> Ks := [100, 1000, 5000]
              Ks := [100, 1000, 5000] (3)

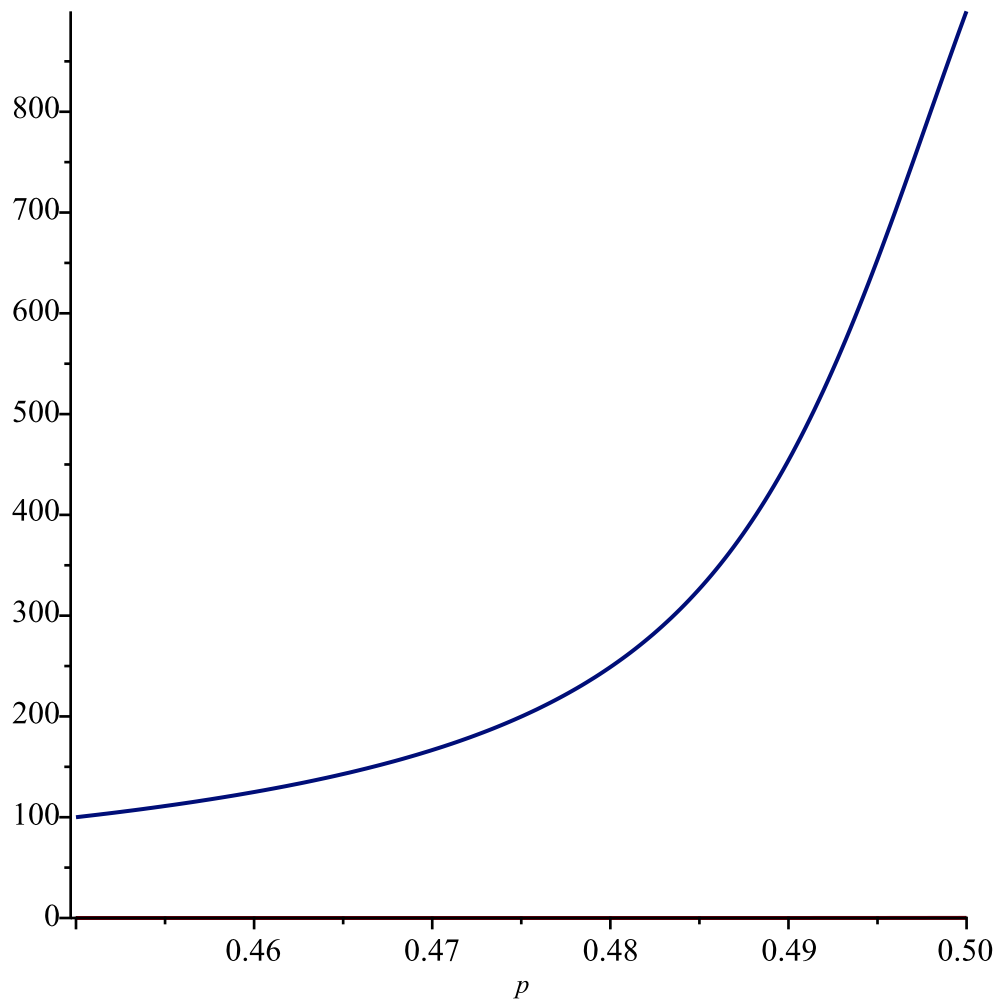
```

```

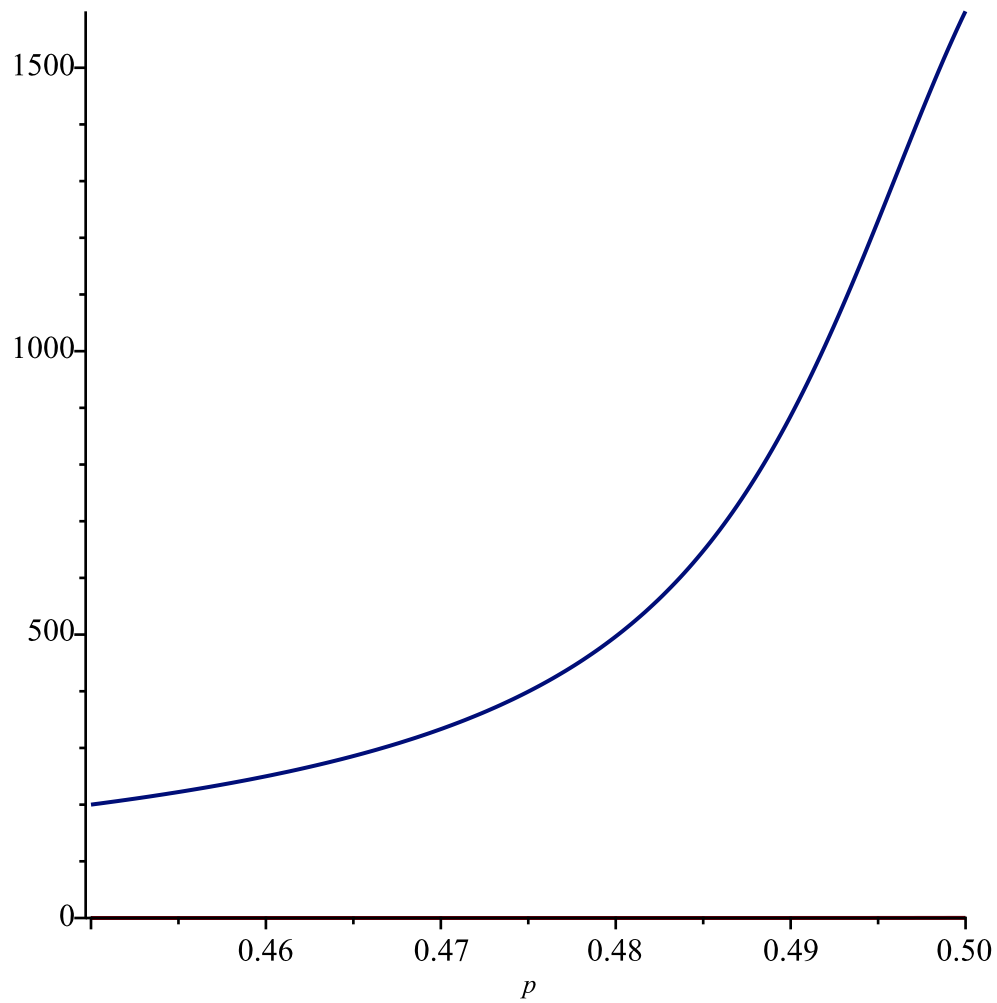
> for K in Ks do
  print(`Estimation with K = `, K):
  EstPD(20, 40, 19/40, K)
end
              Estimation with K = , 100
              [0.090000000000, 294.4000000]
              Estimation with K = , 1000
              [0.12900000000, 304.9620000]
              Estimation with K = , 5000
              [0.1176000000, 307.2556000] (4)
> abs(exact[1] - 1.29)
              1.170972219 (5)
> abs(exact[1] - 1.1176)
              0.9985722189 (6)
> `The estimate with K = 5000 is most accurate`
              The estimate with K = 5000 is most accurate (7)
> for n in [10, 20, 30, 40, 50, 60, 70, 80, 90] do
  print(`\n\n\n\n\n\n\n\nnn = `, n, `:`);
  plot(ForPD(n, 100, p), p = 0.45 .. 0.5);
  print(`\n\n\n\n\n\n\n`)
end

```

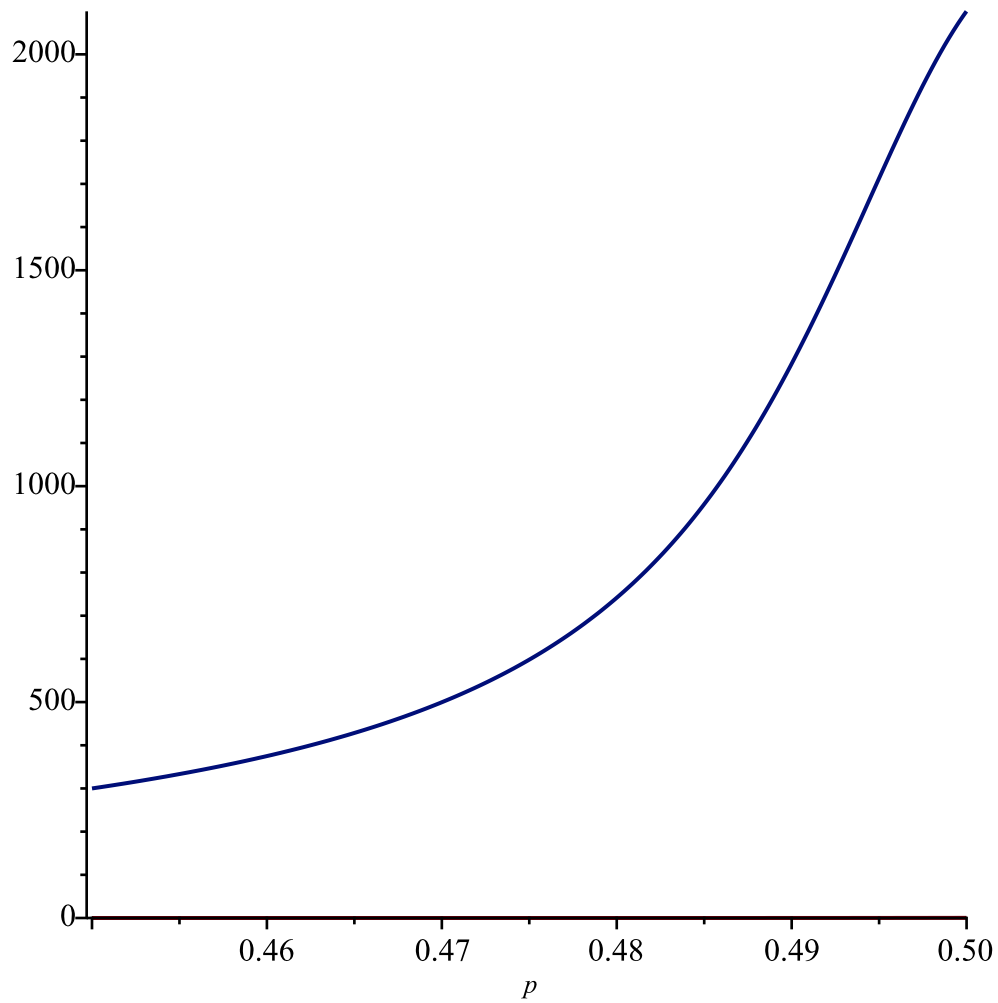
$n = 10, \gamma = 1$



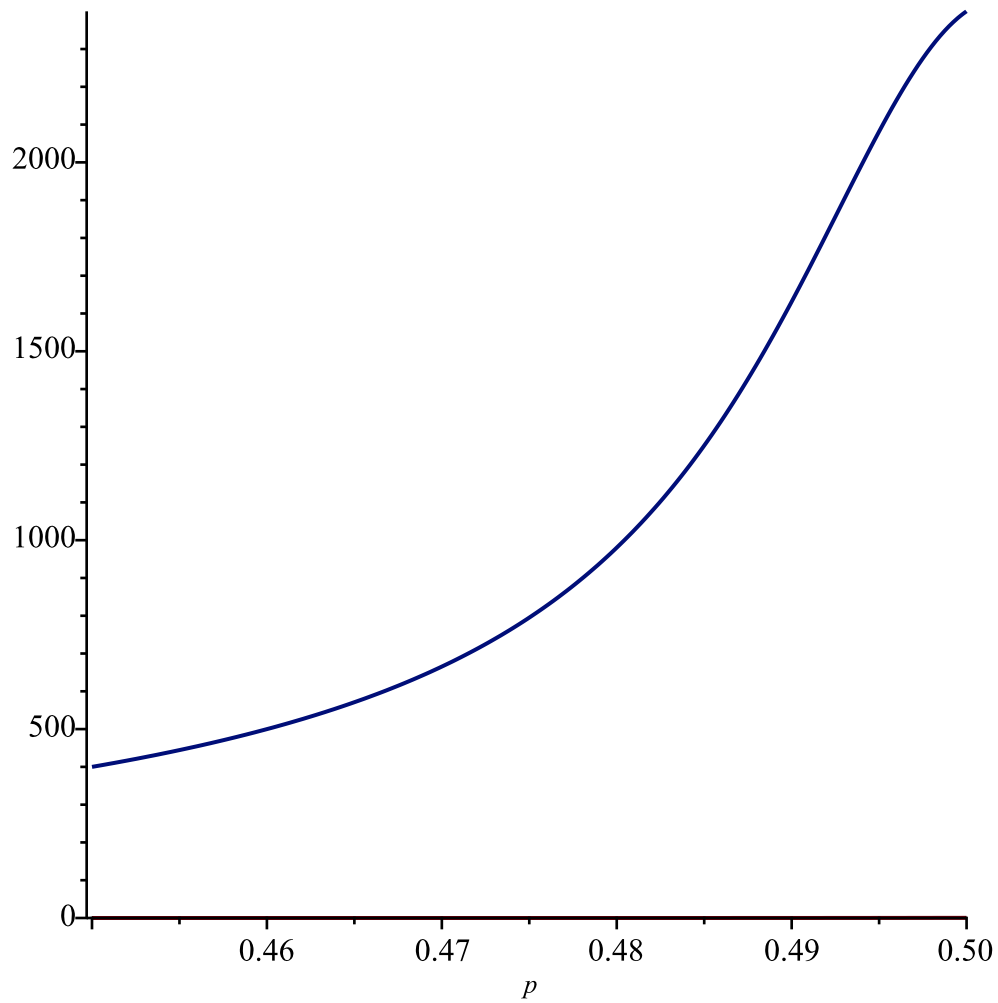
$n = 20, \gamma = 1$



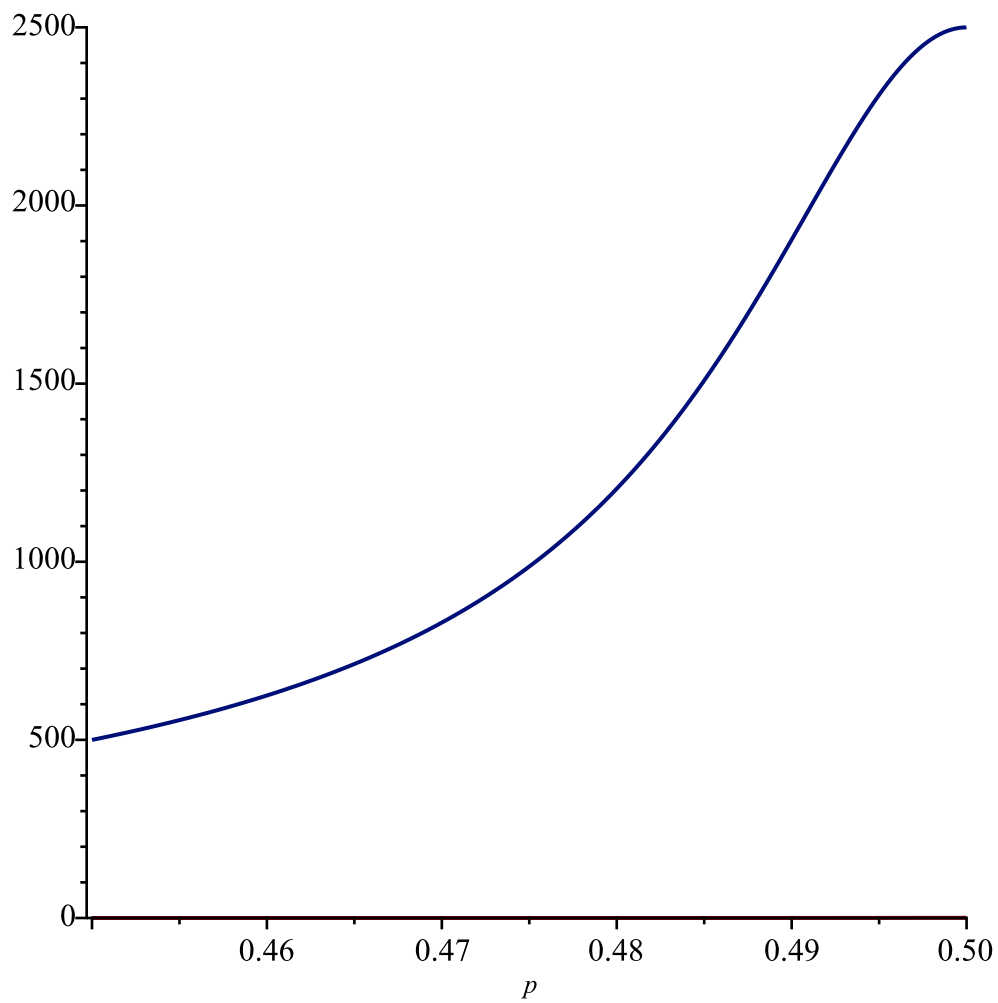
$n = 30, \gamma = 0.5$



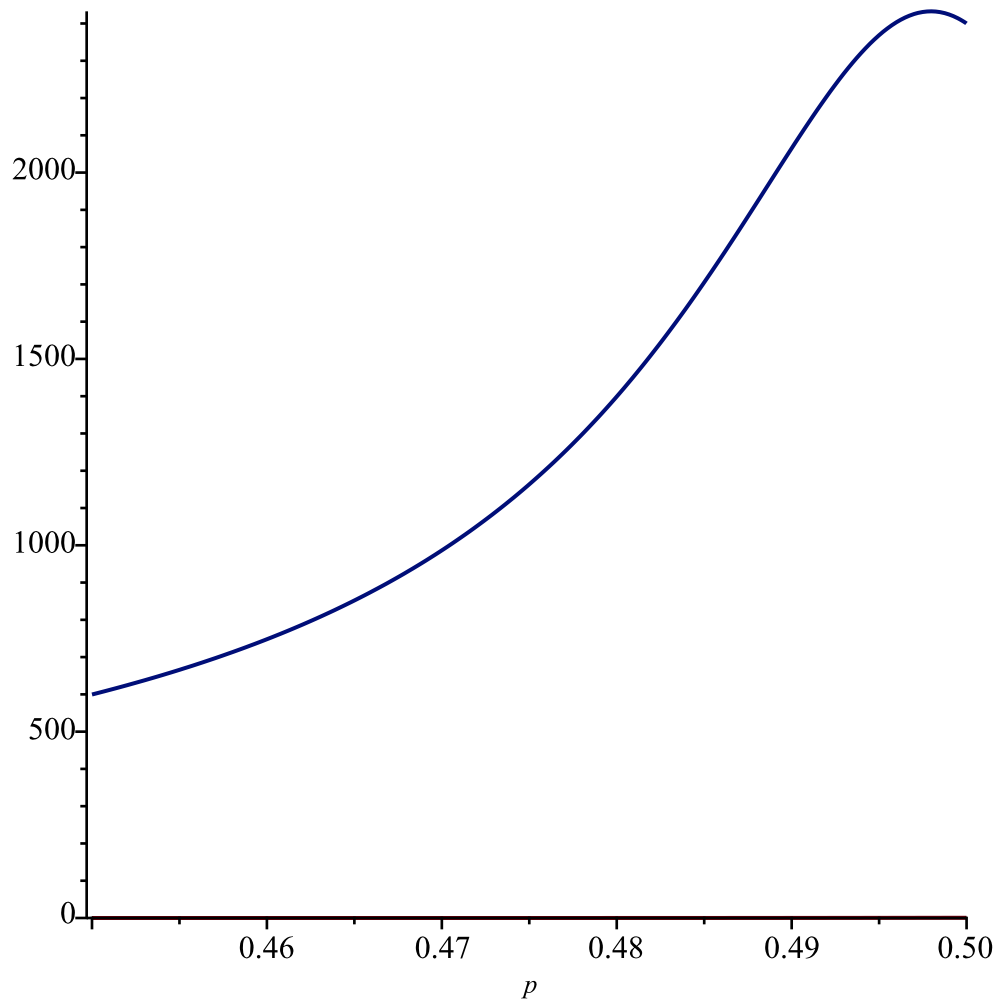
$n = 40, \gamma = 1$



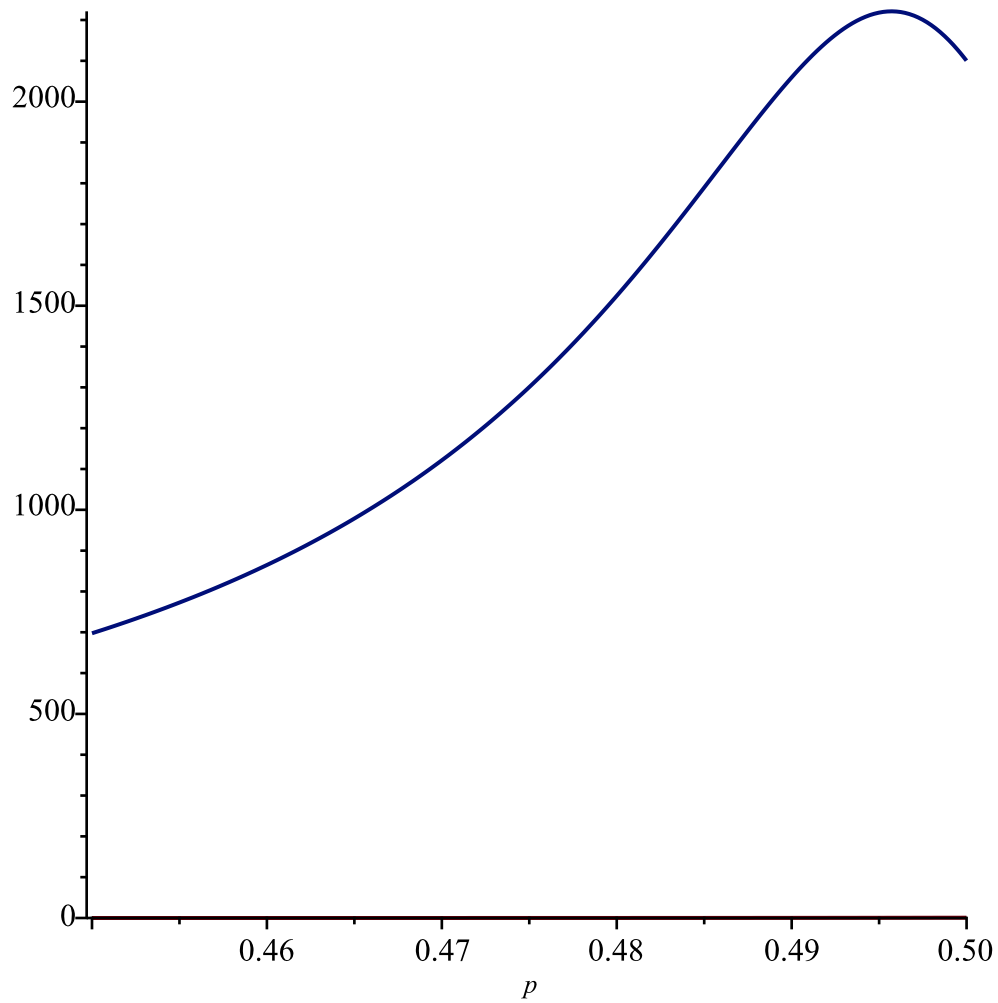
$n = 50, \hat{p}$



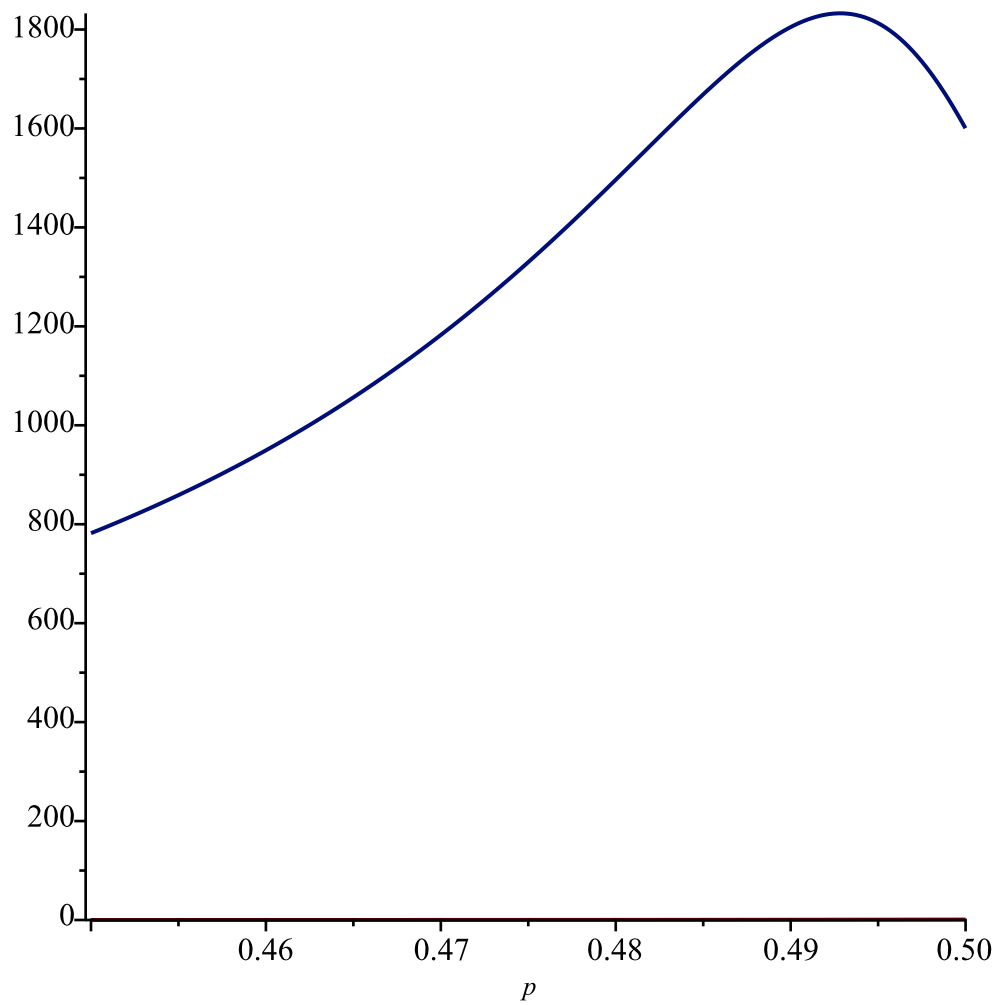
$n = 60, \hat{\tau}$

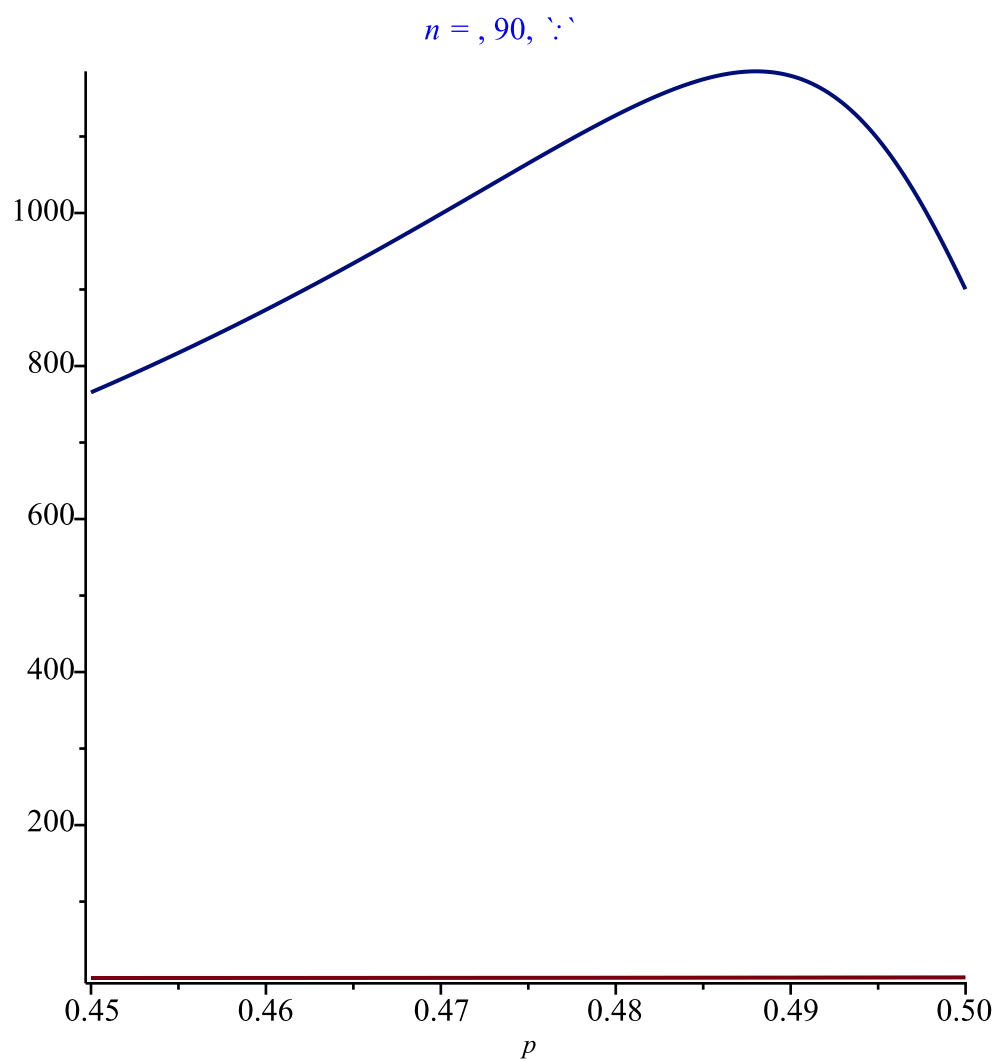


$n = 70, \hat{p}$



$n = , 80, \backslash \backslash$





(8)