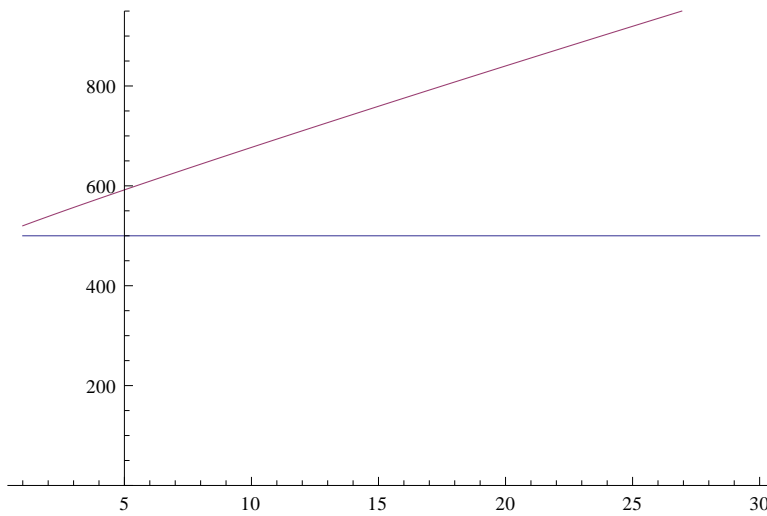


```

e = 500;
z = 950;
t[d_] := (A[d] - e) / (d)
r[d_] := (z - A[d]) / (30.1 - d)
y[A_] :=  $\begin{cases} t[d] - 1 & r[d] < t[d] - 1 \\ t[d] + 2 & r[d] > t[d] + 2 \\ r[d] & \text{True} \end{cases}$ 
s = NDSolve[{A'[d] == y[A[d]], A[1] == e + (z - e) / 30 + 5}, A, {d, 1, 30}][[1, 1]]
A → InterpolatingFunction[{{1., 30.}}, <>]
Plot[{e, Evaluate[A[d] /. s]}, {d, 1, 30}, PlotRange → {0, z}]

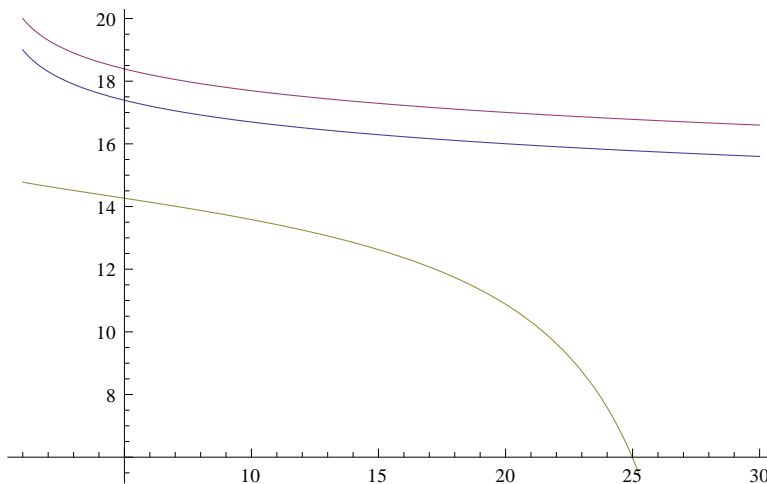
```



```

Plot[{Evaluate[y[d] /. s], Evaluate[t[d] /. s], Evaluate[r[d] /. s]}, {d, 1, 30}]

```



```

Evaluate[A[d] /. s] /. d → 30

```

997.964