Chapter 3 — SOLUTIONS

1.

a) $I_D = \dfrac{V_{in} - 2V_{Don}}{R_1 + R_2}$

$= \dfrac{2.5 - 1.4}{4k\Omega} = \dfrac{1.1\,V}{4k\Omega}$

$\boxed{I_D = 275\,\mu A}$

b) $I_S = 10^{14}A$, $T = 300\,K$, $V_{Don} = 0.7V$

$I_D = I_S \left(e^{V_D/\phi_T} - 1\right)$

where $\phi_T = \dfrac{kT}{q} = 26\,mV$ @ $300\,K$

(*) $I_D = \dfrac{V_{in} - 2V_D}{R_1 + R_2} = I_S\left(e^{V_D/\phi_T} - 1\right)$

$\dfrac{2.5 - 2V_D}{4k\Omega} = 10^{-14}\left(e^{V_D/.026} - 1\right)$

iterating on this expression
we can obtain.

$\boxed{V_D = 0.628\,V}$
$\boxed{I_D = 311\,\mu A}$

c) SPICE

```
exercise 3.1

vin in 0 dc 2.5
r1 in 2 2k
d1 2 3 D
d2 3 out 2k
d2 out 0 D

.options post=2
.op

.model D D level=1 is=1e-14 n=0.5

.end
*********************************
NODE        VOLTAGE
2           1.8750E+00
3           1.2500E+00
OUT         6.2501E-01

CURRENT     3.1249E-04
```

d) $I_S = 10^{-16}A$, $T = 300K$;
again use (*) from b and iterate
to find:

$\boxed{V_D = 0.743V}$
$\boxed{I_D = 253\,\mu A}$

$I_S = 10^{14}A$, $T = 350K$;

$\boxed{V_D = 0.728\,V}$
$\boxed{I_D = 261\,\mu A}$

```
exercise 3.1d
vin in 0 dc 2.5
r1 in 2 2k
d1 2 3 D
r2 3 out 2k
d2 out 0 D

.options post=2
.op

*.temp27
.temp 77
*.model D D level=1 is=1e-16 n=0.5
.model D D level=1 is=1e-14 n=0.5
.end
*********************************
t=27C°
NODE        VOLTAGE
2           1.9880E+00
3           1.2500E+00
IN          2.5000E+00
OUT         7.3892E-01

ID          2.5554E-04
*********************************
t=77C°
NODE        VOLTAGE
2           1.7844E+00
3           1.2500E+00
IN          2.5000E+00
OUT         5.3456E-01

ID          3.5782E-04
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