

# LINGO

```
min=50*x1+100*x2;  
7*x1+2*x2>=28;  
2*x1+12*x2>=24;
```

The solution report gives us the shadow prices (dual prices):

Variable	Value	Reduced Cost
X1	3.600000	0.000000
X2	1.400000	0.000000
Row	Slack or Surplus	Dual Price
1	320.0000	-1.000000
2	0.000000	-5.000000
3	0.000000	-7.500000

And in the range report:

RANGES IN WHICH THE BASIS IS UNCHANGED:

VARIABLE	OBJ COEFFICIENT RANGES		
	CURRENT COEF	ALLOWABLE INCREASE	ALLOWABLE DECREASE
X1	50.000000	300.000000	33.333332
X2	100.000000	200.000000	85.714287

ROW	RIGHTHAND SIDE RANGES		
	CURRENT RHS	ALLOWABLE INCREASE	ALLOWABLE DECREASE
2	28.000000	56.000000	23.999998
3	24.000000	144.000000	16.000000