EX5. If \$600 is invested at 6% interest compounded continuously, how long will it take before the amount is

A:900

P: 600

r:6% ÷100 = .06

t: ?

In1.5 = . Olotolate

EX6. How long does it take \$1500 to double if it is invested at 6% interest compounded semiannually?

 $A = P(1 + \frac{r}{n})^{n+1}$ 

A: 1500 · 2 = 3000

P: 1500

r: 6% ÷100 =,06

n: 2

£: ?

$$\frac{3000}{1500} = \frac{1500(1 + \frac{.06}{2})^{2}}{1500}$$

$$2 = (1 + \frac{9b}{2})^{2t}$$

ln2 = 2t. ln(+ 4)

$$\frac{23.45 = 2t}{2}$$