\$\$ 3.6 The Mathematics of Finance **\$\$**

Time = Money

When you borrow money you must pay interest.

When you put money into a savings account or loan money you can earn interest.

Interest is calculated using Exponential Functions!



Suppose Blake invests \$500 at 7% interest compounded annually. Find the value of his investment 10 years later.

$$A = 500 (1+27)^{10}$$

 $A = 500(1.97)^{10}$
 $A = 500(1.97)^{10}$
 993.57













