	Polli	Homowork 8: Exponential Growth & Decay
Date:	Dell;	nomework 8: Exponential Growth & Dealy
** This is a 2-page document! **		page document! **
Directions: Write the	formula for each function	below.
EXPONENTIAL	GROWTH FUNCTION	EXPONENTIAL DECAY FUNCTION
Directions: Read ead	ch problem carefully, choos	e the correct model, then solve.
Use an exponential	function to find the annual	sales after 7 years.
<ol> <li>The population of a function to find the</li> <li>3. Daniel's Print Shop</li> </ol>	e population of the town af	ter 5 years.
Use an exponentia	purchased a new printer for I function to find its approx	or \$35,000. Each year it depreciates at a rate of 5%. timate value after 8 years.
Use an exponentia 4. The population of exponential function	a school is 800 students ar on to find the population of	or \$35,000. Each year it depreciates at a rate of 5%. timate value after 8 years. Ind is increasing at a rate of 2% per year. Use an the school after 9 years.

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During a certain period of time, about 70 northern sea otters had an annual growth of 18%. Use an
exponential function to find the number of sea otters after 4 years.

 A population of fish starts at 8,000 and decreases by 6% per year. Use an exponential function to find the population of fish in 10 years.

 Twenty years ago, Mr. Davis purchased his home for \$160,000. Since then, the value of the home has increased about 5% per year. Use an exponential function to find the value of the home today.

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