entify the initial value and ROC. The determine if linear or exponential. Then write equations one of
1. A plumber charge \$75 per how and a \$50 service call fee. LX 13 75/hR 50 /in enr
a) What is the charge for 4.25 hours?
y=75(425)+30=\$368,75)
y= 75x 150
2. Cats weigh 6 ounces at birth and gain 4 ounces per week.  a) How long since the cat's birth if it weighs 13.9 ounces?
4=mx+6 13,9=4x+6 (=1.975 weeks)
y=4x+6 7.9=4x
3. The value of a home is currently \$228,000 and increases a 4.7% per year.  a) What is the value of the home after 3 years?
a) What is the value of the home after 3 years? $5 = 4(6)^{\frac{3}{4}}$ $5 = 4(6)^{\frac{3}{4}}$ $5 = 228000(1.047)^{\frac{3}{4}} \frac{261682.63}{198}$
y = 228000 (1+1047)
<ol> <li>Elizabeth has \$758 in her ICarly piggy bank and she is saving \$5 per week.</li> <li>a) How much does she have in her piggy bank after 52 weeks?</li> </ol>
y=mxHb y=5x+758 (=\$1018) ==5(52)+758
(100) 1+ 41
a) How much is in the account after one year? (Hink about now many quarters this is)
y=a (b) = 5700(1.0125) 5700(1.0125)
6 5960.86
6. Lali owes \$375 and repays it at \$20 per-week.  a) How long has he been repaying money if he still owes \$75?  -75 = 20x - 37:
4= mx+6 75=-20x +371 02 325 320= 20x
9=-20x +375 -305-20x sweets \ 9=20x-3/3 300 xxxxx
7. Your great grandpa left you \$83,000. You deposit into an account that pays 3.9% compounded quarterly.
9-a(6) 2 ×83000 (1+1039) 3mm> = 83000 (1,00975) 8
$9-a(6)^{\frac{1}{2}}$ $83000(1+\frac{039}{4})^{\frac{20}{3mu}}$ $5-83000(1+\frac{039}{4})^{\frac{20}{3mu}}$ $83000(1+\frac{039}{4})^{\frac{20}{3mu}}$ $83000(1+\frac{039}{4})^{\frac{20}{3mu}}$