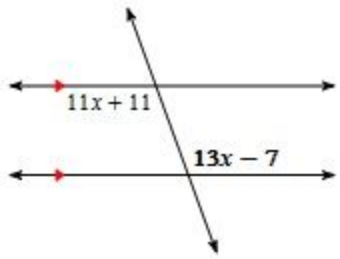
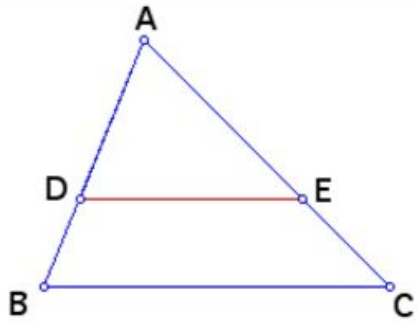
USE TRANSFORMATION app on Ipad

10.1 Transformations & Dilations of Triangles.	Name
REFLECTIONS Get Signature when you have 6 Points _____	TRANSLATIONS Get Signature when you have 6 points _____
ROTATIONS Get Signature when you have 6 Points _____	ENLARGEMENTS with POSITIVE SCALE FACTOR Get Signature when you have 10 Points _____
ENLARGEMENTS with FRACTIONAL SCALE FACTOR Get Signature when you have 10 Points _____	ENLARGEMENTS with NEGATIVE SCALE FACTOR Get Signature when you have 6 Points _____
1. Are the angles below, corresponding, or alternate interior angles? Find the value of x.  	2. Add an exponent or an index to make each statement true. $\sqrt[\_\_]{125} = 5^{\_\_}$ $\sqrt[\_\_]{81} = 3^{\_\_}$ $\sqrt[\_\_]{1024} = 2^{\_\_}$
3.Simplify using the rules of Exponents: a. $3x^{\frac{-1}{4}} \cdot 4x^{\frac{-5}{4}}$ b. $\left(81x^{-2}y^{12}\right)^{\frac{1}{4}}$ c. $\frac{4x^{\frac{1}{5}}}{16x^{\frac{4}{5}}}$ d. Write in exponential form: $3\sqrt{x^5}$	4. Consider the function shown. $f(x) = 10(2^x)$ Which situation could be represented by this function? (A) Ana's distance traveled by biking 10 miles every 2 hours (B) Ana's temperature after eating 2 frozen beverages over 10 hours (C) Ana's earnings after depositing 10 dollars in an account that compounds 2% interest quarterly (D) Ana's keyboarding speed each week if she starts at 10 words per minute and doubles her speed each week
5. ACCOUNT 1: Fiona invests $700 in a stock market account on Jan 1, 1990 with a 4.5% interest. ACCOUNT 2: Fiona also invested $500 in a different Stock market account on Jan 1,1990 that is earning 6.5% interes. Explain how you know which account is doing better in 25 yrs.	6. If a population of 40,000 people are infected with a disease, and is killing people at a rate of 4% a day, how many people will be dead in 10 days?

7. _____



∠

If DE is parallel to BC, and if the m∠ ADE is 65, and the m∠A =40, then find

m∠ABC=

m∠AEC=

m∠ACB=

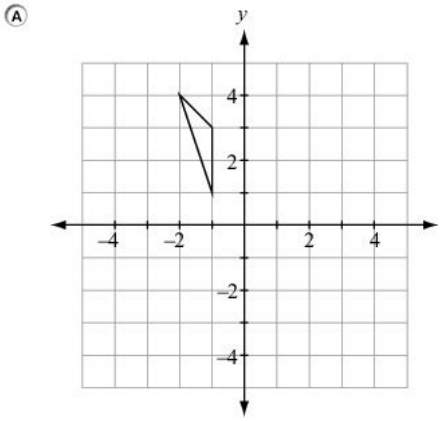
8. Which function always has a larger value in the long run?

$A.\ y = 5000000 + 6x$

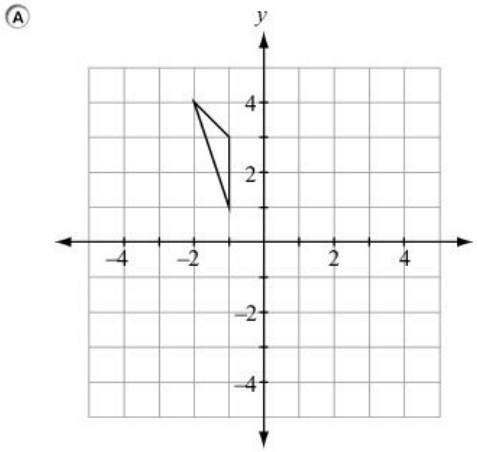
$B.\ y = 40x^2 + 60x$

$C\ y = 30(1.8)^x$

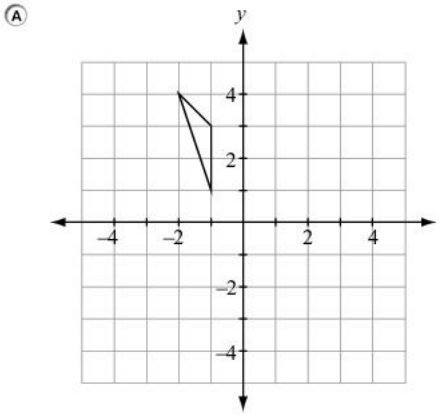
8. Draw the image of the figure shown after the transformation f(x,y)→ $(x+1,\ y-5)$



9. Draw the image of the figure shown after reflecting it over the line y=x.



12. Draw the image of the figure shown after rotating it 180 degrees.



13. Draw the image of the figure shown after dilating in be a factor of -2, using the point of dilation of (0,0).