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Maths Coordinate Geometry Worksheets

III. Scalar Transformation

A) Write the 2x4 matrix, listing the four vertices of the shape in the graph.

$$S = \begin{bmatrix} -2 & 2 & 4 & 0 \\ 1 & -1 & 0 & 0 \end{bmatrix}$$

B) What is the matrix 2S?

May 2S on the graph (on the right).

$$2S = 2 \begin{bmatrix} -2 & 2 & 4 & 0 \\ 1 & -1 & 0 & 0 \end{bmatrix} = \begin{bmatrix} -4 & 4 & 8 & 0 \\ 2 & -2 & 0 & 0 \end{bmatrix}$$

C) What is the scalar used to transform

1) $M \rightarrow 3M$?

$$\begin{pmatrix} 2 & 4 \\ 3 & 6 \end{pmatrix} \rightarrow \begin{pmatrix} 6 & 12 \\ 9 & 18 \end{pmatrix} = \begin{pmatrix} 3 & 0 \\ 0 & 3 \end{pmatrix}$$

2) $M \rightarrow -3M$?

$$\begin{pmatrix} 2 & 4 \\ 3 & 6 \end{pmatrix} \rightarrow \begin{pmatrix} -6 & -12 \\ -9 & -18 \end{pmatrix} = \begin{pmatrix} -3 & 0 \\ 0 & -3 \end{pmatrix}$$

IV. Reflections

Identify (describe) the linear transformation each matrix performs:

1) $\begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$

$(x, y) \rightarrow (x, -y)$

reflection over the x-axis

2) $\begin{pmatrix} -1 & 0 \\ 0 & 1 \end{pmatrix}$

$(x, y) \rightarrow (-x, y)$

reflection over the y-axis

3) $\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$

$(x, y) \rightarrow (-x, -y)$

reflection over the origin (or 180° rotation)

4) $\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$

$(x, y) \rightarrow (x, y)$

NO transformation (identity matrix)

1. $k = 2$

2. $k = \frac{1}{4}$

3. $k = \frac{1}{2}$

4. $k = \frac{1}{2}$

Name :

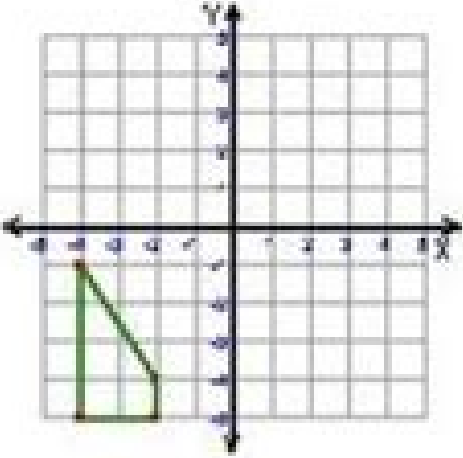
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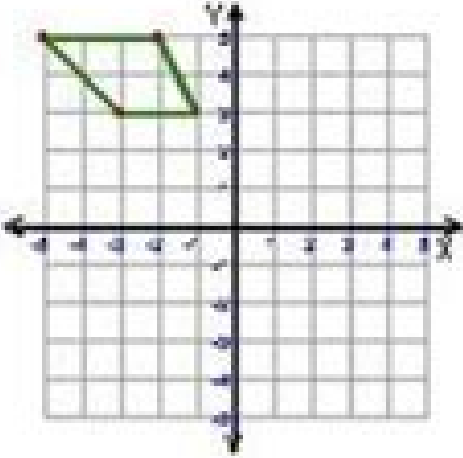
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Translations

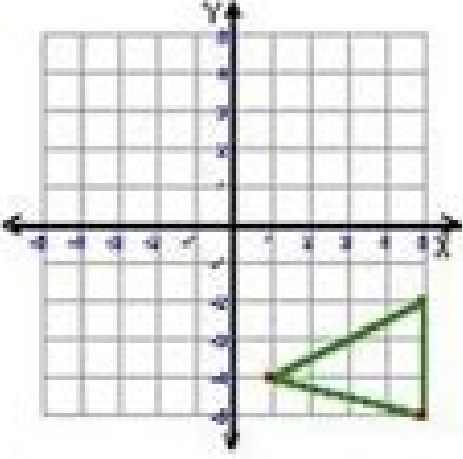
1) Translation: 3 right



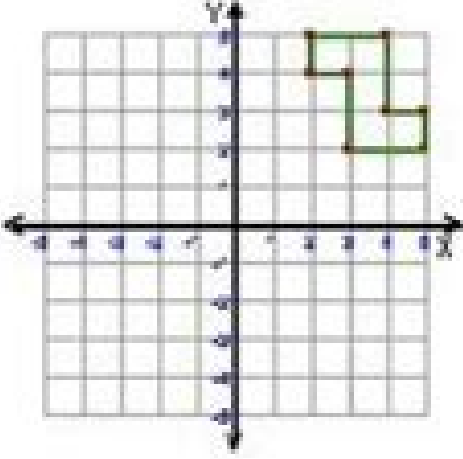
2) Translation: 2 right and 3 down



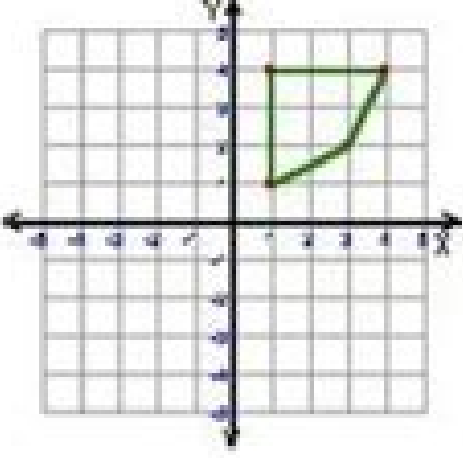
3) Translation: 5 left



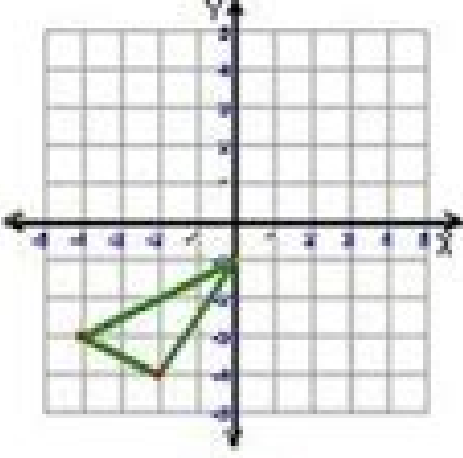
4) Translation: 4 left and 3 down



5) Translation: 4 left and 5 down



6) Translation: 3 right and 4 up



5-1 Graphing Quadratic Functions Worksheet A

Name:

Graph the following quadratic equations:

1. $y = x^2 + 9$

2. $y = -x^2 + 4$

3. $y = x^2 + 6x + 5$

4. $y = x^2 + 2x + 3$

5. Which of the following equations opens up?

A) $-5x^2 - 7x + 9$ B) $21x^2 - 18x + 11$ C) $-x^2 + 9$ D) $-8x - x^2 + 4x^2$

6. Which of the following equations opens down?

A) $y = x^2 + 2x + 3$ B) $y = 4$ C) $y = -4x^2$ D) $y = 7 + 10x - 3x^2$

To collect an interrelated dimension, pupils must answer a question from the question sheetPage 16Use this for students to take a spelling test. Included is a freebie on transformations rules (reflections, rotations, translations, and dilations). As the teacher, you decide what rhythms to play!Page 5Build solid phonics skills with these research-based worksheet activities to ensure your students' mastery of Short A CVC closed syllables at the word, sentence, and passage level. Terms include: nonfiction, credibility, writer's purpose, objective, subjective, tone, diction, generalization, bias, loaded word. It includes pictures of different Transformers, which have had one of the four different transformations (reflections, rotations, translations, and dilations) performed on them. This NO PREP book guide has targeted word lists for many different speech and language areas including the following: articulation, apraxia (VC, CV, CVC, and 3-4 syllable words), verbs, synonyms, higher-level vocabulary, basic concepts, story retell, comprehension, compare/contrast, social skills, and MORE!A A Perfect for speech therapy, special education, and general education classrooms! Each worksheet may consist of several pages, scroll down to the see everything. Page 2 [Home] This worksheet is a PDF document. Teacher: "milk"Student: milkTeacher and students (while finger tapping): /m/ /l/ /l/ /k/ /m/ /l/ k Then student writes the word on their paper. Many are excited to participate at the end, demonstrating what they've learned.Overview; This is a Spanish pronunciation practice set for the letter K. ABC data tracks antecedents, the behavior(s) of concern, and consequences maintaining the behavior. This worksheet contains:Text for dictationDictation worksheets for teenage and adult ESL learners for homework and work-from-home activities! Reinforce English learning with these worksheets which supplement dictations which can be accessed **** loseT_LFET_solpmexE_orvIL_FDP_enilkaB ertseM_asac ed ofeA\$AIL_oirjAliubacoV_s\$Algnl onisnE_selbatnirP.s\$Algnl odnednorpA_noitatciD_oirjAnoitseuO_etsE_T_oirjAmirP_oEAsserpmI_ervIL_oledoM_aifargotO_LLE_LFE_LLE_etocap mu me uo ajol asson me etnemadarapes adarpmoc res edop edadinu adaC_).sadv sairp^Arp saus arap etnaveler ©A euq o moc merehcneerp sonula so arap(solpmexe)3_).sasserpmi ;Aj sadot(sepu\$AinifeD) 2_).somreT^1).sanuloc s^Art met ocifiArq etsE 12 egapcudorpeR_suogyzomomoH_edadililaborP_erauq\$ tennuP_oleIA evisseteR_etanimoD oleIA_seneG_sanAetorP_ ANR_ AND_).sopit^AneG_).leit^AneF_).sodatluseR 1F sledneM_saruP_).aidereH_).jedneM rogerG_).noitatid ed setset uo soirj^Anoitseuq_).acitjArp ed odatid arap adasu res edop ahlinalp atsE yteehskroW noitaciD cidolelimE_).etnemavon odagirBO_).sotudorp suem rarohlem a raduja em arap soirj^Atnemoc exied_).rovaf roP.osrucer etse rev roP.odagirBO_).ohlif ues od atirce ed ossergorp on e aifargotro an sodazilauta siap so retnam arap emoH srepaP tseT dneS.sepu\$Aautnop ed orvil ues me ravarg e sanigjAp tset tcelloC.odatid ed sesarf reverse e rariv setnadutsE.sianames aifargotro ed sohlabart me etset-aiem ed setnadutse me etroc e ecaf alpud sanigjAp satse amirpmI_).sadanedrooc ed onalp mu me otnemivom me sotnop racitarp ed edadinutropo a sonula soa ;Ad e sarger sa ebixe eIE_).sonula so moc odatid mu a\$Aaf e amirpmI_).7 ovoN onA ed alua ahnim ibecer m^ABmat ue_).atomer megazidnerpa a arap somadum euq sahlinalp sa rahnapmoca arap omtir od odatid od selpmis edadivita A_).etnemadarapes sacid^Alem sedadililbah sa e omtir o railava ed arienam amil^A amu ©A oirj^Anoitseuq etsE YBodatid ed adnerpA acis^Am ed oledom ed sedadissecen saus s A redneta arap aton aiem ed sahlrof sad sepu\$Aerev s^Art odairC_).itseR at_).ha-t^T_).itT^T_).at_):oEAsreV eibeertf.^A ohnamat ed sdraolpic masu sonula suem eugrop anigjAp rop etnadutse ed sahlrof saud ieire uE mev mev iuga orvil on sodartnocne megaugnil e alaf ed aiparet ed sovla ranimreted arap aduja ed asicerp ^AcoV71 anigjAP ***** Cat? The original music for this product is by SimpleSongs.com. This worksheet contains:Text for dictationRhythmic Dictation worksheethy can follow in order to dictate a rhythm. It is intended for students to use orally, in pairs or small groups, with teacher guidance.Of course, the pronunciation of theMUSICAL DICTATIONby A good way to learn to appreciate music is from visual dictations. You can add your own words that you would like for your students to practice say!Behavioral Anecdotal Data Sheet Editableby This ABC data sheet is editable to individualize to your student's specific behaviors goals. The lines help students understand the number of beats in the pattern as well as

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