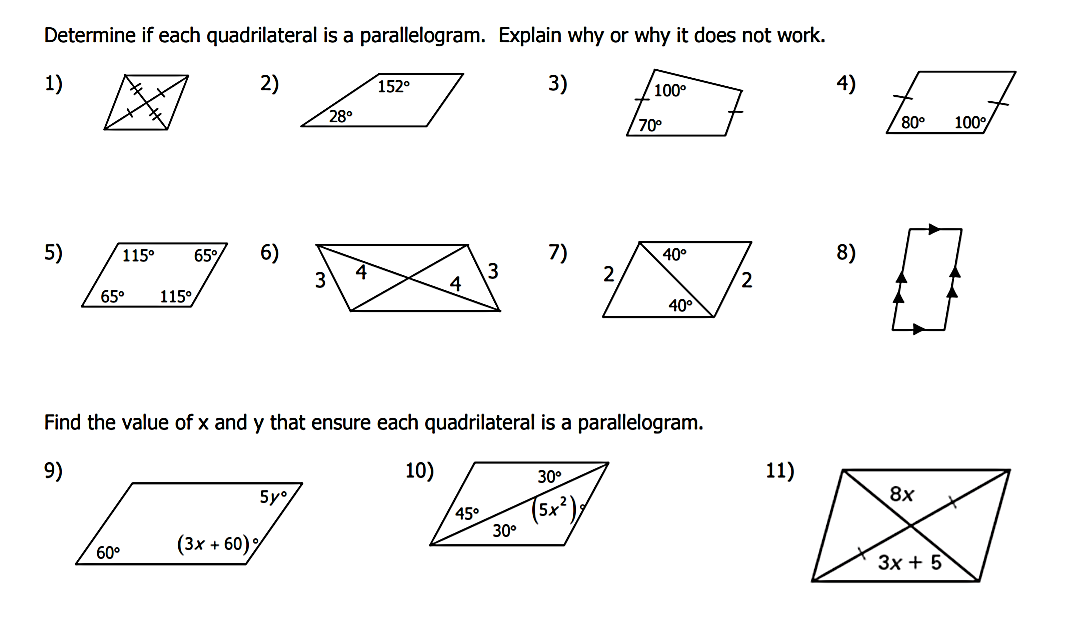
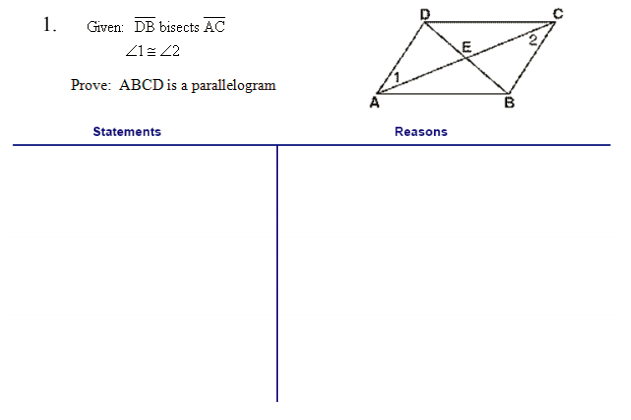
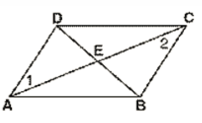
|  |  |  |
| --- | --- | --- |
| Ways to PROVE a quadrilateral is a Parallelogram | | |
| Sides | Definition of Parallelogram: If both pairs of opposite sides of a quadrilateral are parallel, then it is a parallelogram. | http://www.mathplanet.com/Oldsite/media/44000/parallelogram_499x300.jpg |
| If the 2 pairs of opposite sides of a quadrilateral are congruent, then it is a parallelogram. | http://www.mathplanet.com/Oldsite/media/44000/parallelogram_499x300.jpg |
| If ONE pair of opposite sides of a quadrilateral is BOTH parallel and congruent, then it is a parallelogram. | http://www.mathplanet.com/Oldsite/media/44000/parallelogram_499x300.jpg |
| Angles | If the 2 pairs of opposite angles in a quadrilateral are congruent, then it is a parallelogram. | http://www.mathplanet.com/Oldsite/media/44000/parallelogram_499x300.jpg |
| Diagonals | If the diagonals of a quadrilateral bisect each other, then it is a parallelogram. | http://www.mathplanet.com/Oldsite/media/44000/parallelogram_499x300.jpg |

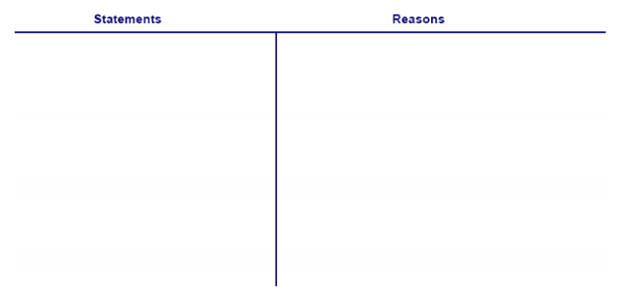
****

Complete the following proofs:



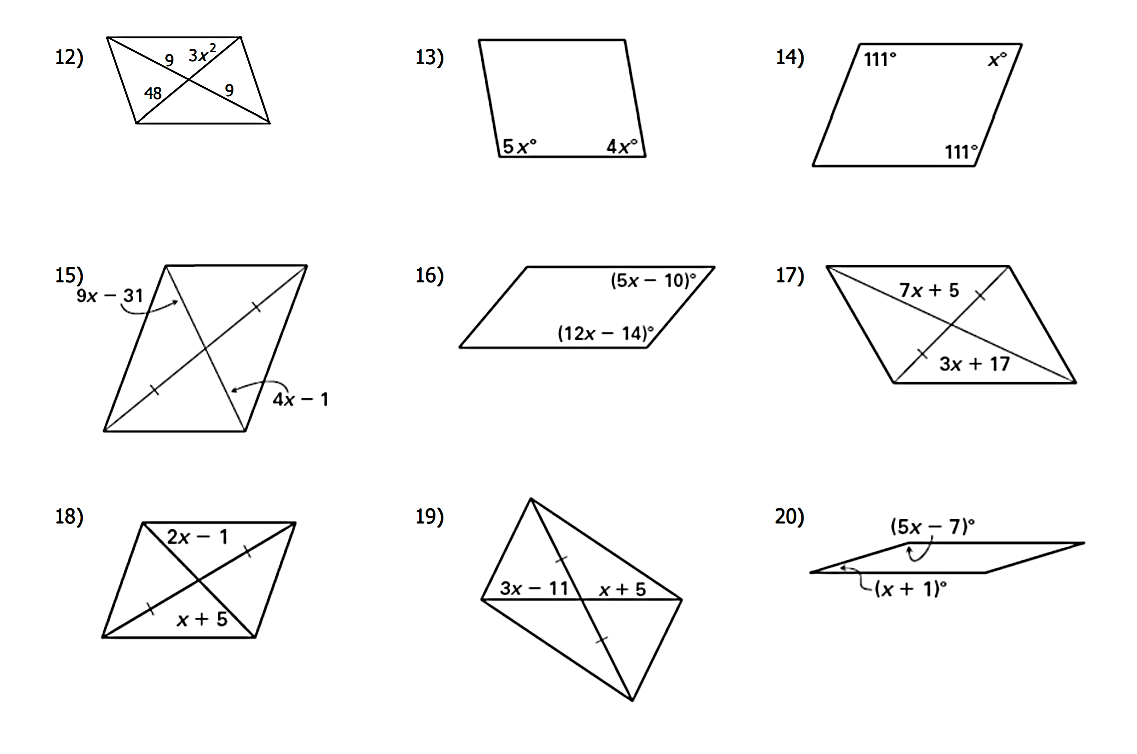
2. Given: DC // AB and ∠1 ≅ ∠2

Prove: ABCD is a parallelogram

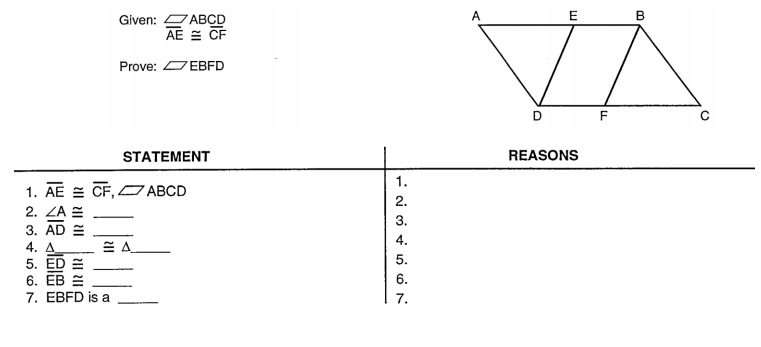


**DAY 3 HOMEWORK**

Find the value for x that will ensure that the given quadrilateral will be a parallelogram:

****

Complete the following proof:



//