Quadrilaterals – Parallelograms Proof 1

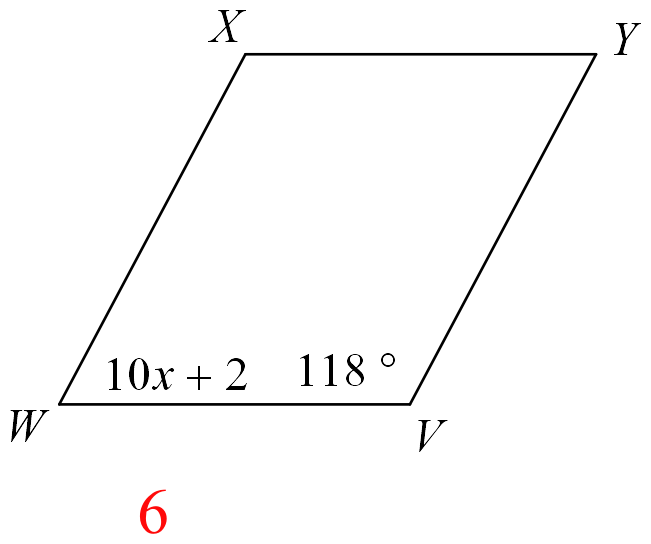
Given: Parallelogram CDEF with



Prove: x = 8



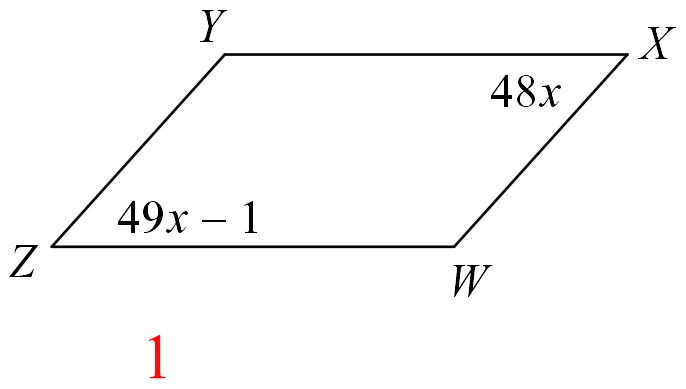
|  |  |
| --- | --- |
| **Statements** | **Justifications (Reasons)** |
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |
| 4. | 4. |
| 5. | 5. |
| 6. | 6. |
| 7. | 7. |

Quadrilaterals – Parallelograms Proof 2

Given: Parallelogram VWXY with

Prove: x = 6

|  |  |
| --- | --- |
| **Statements** | **Justifications (Reasons)** |
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |
| 4. | 4. |
| 5. | 5. |
| 6. | 6. |
| 7. | 7. |

Quadrilaterals – Parallelograms Proof 3

Given: Parallelogram WXYZ with

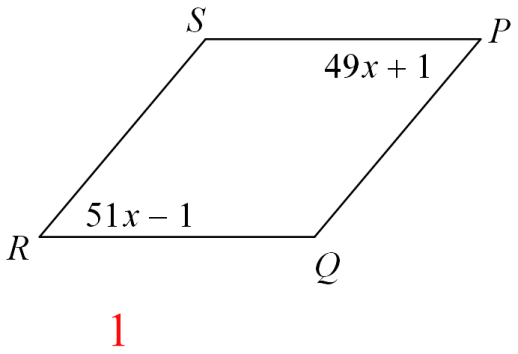


Prove: x = 1

|  |  |
| --- | --- |
| **Statements** | **Justifications (Reasons)** |
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |
| 4. | 4. |
| 5. | 5. |
| 6. | 6. |
| 7. | 7. |



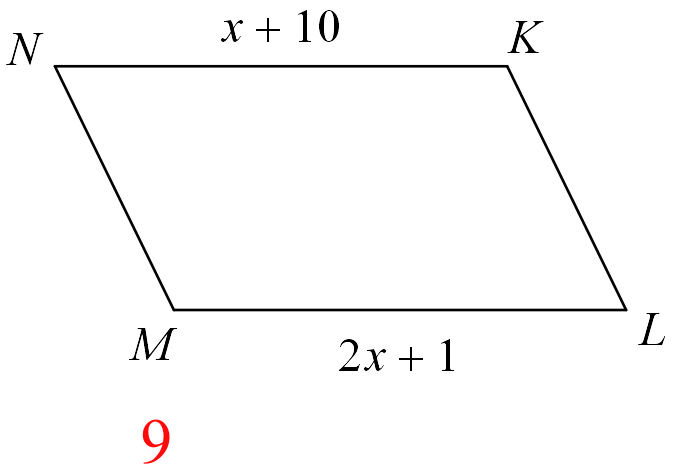
Quadrilaterals – Parallelograms Proof 4



Given: Parallelogram PQRS with

Prove: x = 1

|  |  |
| --- | --- |
| **Statements** | **Justifications (Reasons)** |
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |
| 4. | 4. |
| 5. | 5. |
| 6. | 6. |
| 7. | 7. |

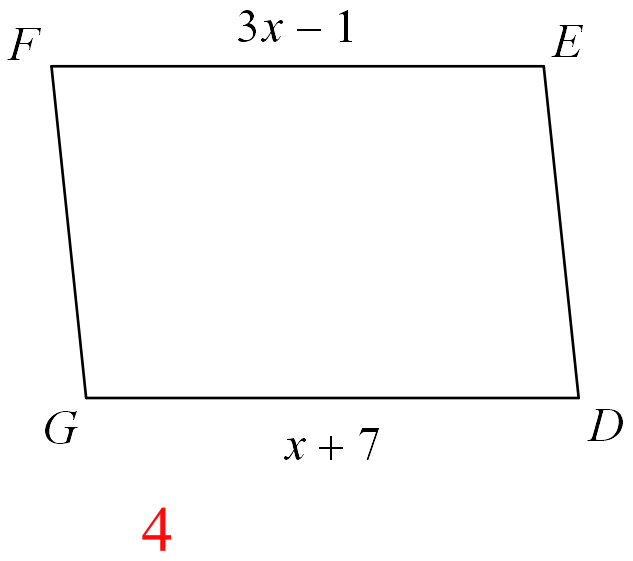
Quadrilaterals – Parallelograms Proof 5

Given: Parallelogram KLMN with

*KN* = x + 10 and *ML* = 2x = 1

Prove: x = 9

|  |  |
| --- | --- |
| **Statements** | **Justifications (Reasons)** |
| 1. | 1. |
| 2. | 2. |
| 3.  *KN = ML* | 3. |
| 4. | 4. |
| 5. | 5. |
| 6. | 6. |
| 7. | 7. |



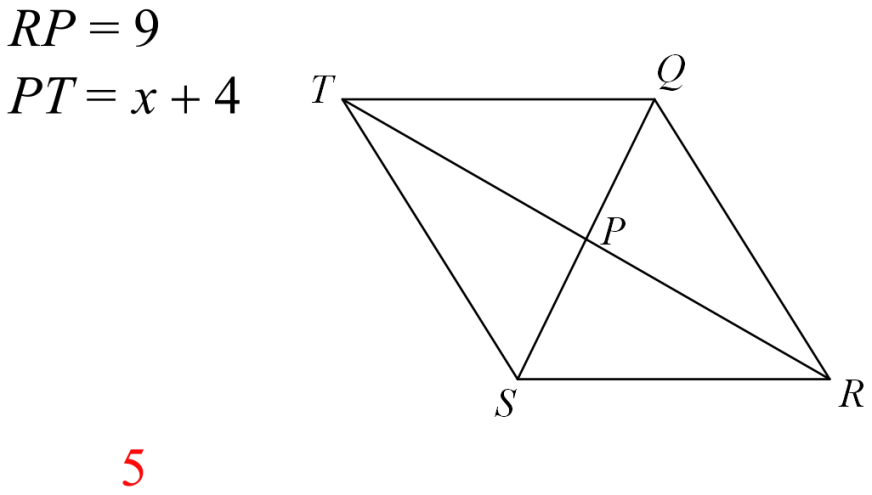
Quadrilaterals – Parallelograms Proof 6

Given: Parallelogram DEFG with

*EF = 3x – 1*  and *DG = x + 7*

Prove: x = 4

|  |  |
| --- | --- |
| **Statements** | **Justifications (Reasons)** |
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |
| 4. | 4. |
| 5. | 5. |
| 6. | 6. |
| 7. | 7. |

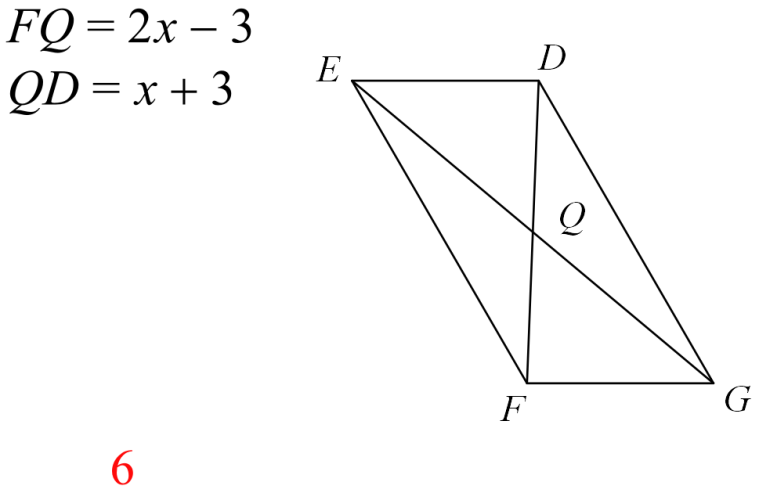
Quadrilaterals – Parallelograms Proof 7

Given: Parallelogram QRST with *RP = 9* and *PT =*  x + 4



Prove: x = 5

|  |  |
| --- | --- |
| **Statements** | **Justifications (Reasons)** |
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |
| 4.  *RP = PT* | 4. |
| 5. | 5. |
| 6. | 6. |
| 7. | 7. |

Quadrilaterals – Parallelograms Proof 8

Given: Parallelogram DEFG with

Prove: x = 6

|  |  |
| --- | --- |
| **Statements** | **Justifications (Reasons)** |
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |
| 4. | 4. |
| 5. | 5. |
| 6. | 6. |
| 7. | 7. |