

NAME

May

DATE

SCORE

Lessons 5-4, 5-5

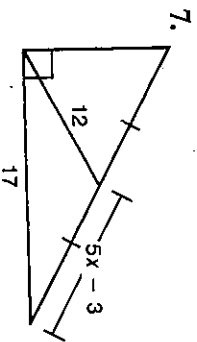
Practice 19 Special Quadrilaterals

Classify each statement as *always*, *sometimes*, or *never* true.

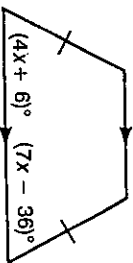
1. A parallelogram contains exactly two right angles. never
2. Each diagonal of a parallelogram bisects two angles of the parallelogram. sometimes
3. A rhombus with no right angles has congruent diagonals. never
4. The diagonals of a rhombus are perpendicular. always
5. A rectangle that is not a square has perpendicular diagonals. never
6. A quadrilateral with diagonals that are perpendicular is a parallelogram. sometimes



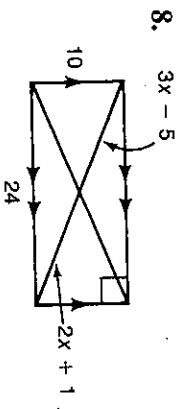
Find the value of x .



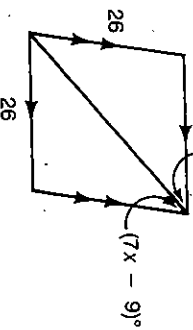
$x = 3$



$x = 14$



$x = 10$

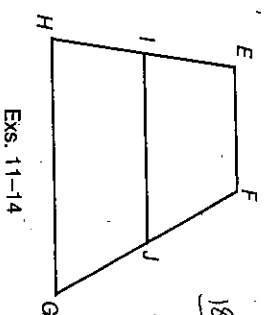


$x = 7$

$9 + x + 8 = x$
 $17 + x = x$

\bar{M} is the median of trapezoid $EFGH$. Find the value of x .

EF	HG	MI	x
7	13	x	10
$3\frac{1}{2}$	x	$5\frac{1}{4}$	7
18.3	x	21.2	24.1
9	$x + 8$	x	17



Exs. 11-14

$\frac{18.3 + x}{2} = 21.2$
 $18.3 + x = 42.4$
 $x = 24.1$

Give the most descriptive name for quad. $ABCD$.

15. $\angle A \cong \angle C$ and $\angle B \cong \angle D$ Parallelogram
16. $\overline{AB} \cong \overline{BC} \cong \overline{CD} \cong \overline{DA}$ and $\angle A \cong \angle B$ Square
17. $\overline{AB} \parallel \overline{DC}$, $\overline{AD} \cong \overline{BC}$, and $\angle C > \angle B$ Isosceles Trapezoid

$\frac{35x}{2} = 525$
 $35x = 1050$
 $x = 30$

