

Lesson 6.3

Homework Answers

Pg 307 - #1-15, 19-29, 32-34, 39, 40, 44-47

Pg 310 - #1-10

<p><u>Pg 307</u></p> <p>1) 5</p> <p>2) $x = 3, y = 4$</p> <p>3) $x = 1.6, y = 1$</p> <p>4) $\frac{5}{3}$</p> <p>5) 5</p> <p>6) 13</p> <p>7) Yes; both pairs of opp. sides are \cong.</p> <p>8) No; the quad. could be a kite.</p> <p>9) Yes; both pairs of opp. \angle's are \cong.</p> <p>10) No; the quad. could be a trapezoid.</p> <p>11) Yes; both pairs of opp. sides are \parallel since alt. int. \angle's are \cong.</p> <p>12) Yes; one pair of opp. sides are \parallel and \cong.</p> <p>13) Yes; both pairs of opp. sides are \parallel.</p> <p>14) No; opp. sides are not \parallel.</p> <p>15) No; the quad. could be a kite.</p> <p>19) a) Distr. Prop b) Div POE c) $\overline{AD} \parallel \overline{BC}, \overline{AB} \parallel \overline{DC}$ d) If same-side int. \angle's are supp., the lines are \parallel. e) Defn. of parallelogram.</p> <p>20) Yes; both pairs of opp. \angle's are \cong.</p> <p>21) No; the figure could be a kite.</p> <p>22) Yes; a pairs of opp. sides are \parallel and \cong.</p> <p>23) No; the figure could be a trapezoid.</p> <p>24) Yes; both pairs of opp. sides are \cong.</p> <p>25) Yes; diagonals bisect each other.</p>	<p>26) $x = 15, y = 25$</p> <p>27) $x = 3, y = 11$</p> <p>28) $c = 8, a = 24$</p> <p>29) $k = 9, m = 23.4$</p> <p>32) (4, 0)</p> <p>33) (6, 6)</p> <p>34) (-2, 4)</p> <p>39) C</p> <p>40) F</p> <p>44) a) $6x = 7x - 11; x = 11$ b) Yes; $m\angle ABC \cong m\angle CDE = 66^\circ$ c) Yes; $\overline{BD} \parallel \overline{FE} \& \overline{BF} \parallel \overline{DE}$</p> <p>45) $a = 8, h = 30, k = 120$</p> <p>46) $m = 9.5, x = 15$</p> <p>47) $e = 13, f = 11, c = 204$</p>
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Pg 310 - #1-10

Pg 310

- 1) $m\angle 1 = 59, m\angle 2 = 121, m\angle 3 = 59$
- 2) $m\angle 1 = 43, m\angle 2 = 62, m\angle 3 = 62$
- 3) $m\angle 1 = 106, m\angle 2 = 74, m\angle 3 = 26$
- 4) trapezoid, isosc. trapezoid
- 5) rectangle, parallelogram
- 6) rectangle, parallelogram
- 7) $x = 45, y = 60$
- 8) $x = 1, y = 2$
- 9) 20.6
- 10) kite