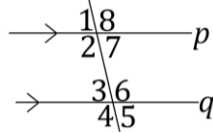


Name: _____

Parallel Lines Cut by a Transversal Practice Part 2

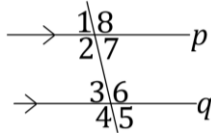


| | | | |
|--|---|--|--|
| 1. $m\angle 3 = 64^\circ$ $m\angle 7 = ?$ (Angles are _____) | 2. $m\angle 6 = 115^\circ$ $m\angle 7 = ?$ (Angles are _____) | 3. $m\angle 6 = 98^\circ$ $m\angle 8 = ?$ (Angles are _____) | 4. $m\angle 3 = 72^\circ$ $m\angle 6 = ?$ (Angles are _____) |
|--|---|--|--|

Determine the value of x and the measure of each angle.

| | | | | | | | | | | | |
|---|---|---|------------------|---|-------|------------------|------------------|---|-------|------------------|------------------|
| 5. $m\angle 1 = (5x + 10)^\circ$ $m\angle 7 = (7x - 34)^\circ$ | 6. $m\angle 1 = (12x + 7)^\circ$ $m\angle 5 = (9x + 22)^\circ$ | 7. $m\angle 1 = (3x + 12)^\circ$ $m\angle 4 = (8x + 25)^\circ$ | | | | | | | | | |
| Angles are: <table border="1"><tr><td>$x =$</td><td>$m\angle __ =$</td><td>$m\angle __ =$</td></tr></table> | $x =$ | $m\angle __ =$ | $m\angle __ =$ | Angles are: <table border="1"><tr><td>$x =$</td><td>$m\angle __ =$</td><td>$m\angle __ =$</td></tr></table> | $x =$ | $m\angle __ =$ | $m\angle __ =$ | Angles are: <table border="1"><tr><td>$x =$</td><td>$m\angle __ =$</td><td>$m\angle __ =$</td></tr></table> | $x =$ | $m\angle __ =$ | $m\angle __ =$ |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | |
| 8. $m\angle 4 = (10x + 40)^\circ$ $m\angle 8 = (11x + 30)^\circ$ | 9. $m\angle 4 = (20x - 17)^\circ$ $m\angle 6 = (21x - 25)^\circ$ | 10. $m\angle 7 = (10x + 8)^\circ$ $m\angle 8 = (15x + 22)^\circ$ | | | | | | | | | |
| Angles are: <table border="1"><tr><td>$x =$</td><td>$m\angle __ =$</td><td>$m\angle __ =$</td></tr></table> | $x =$ | $m\angle __ =$ | $m\angle __ =$ | Angles are: <table border="1"><tr><td>$x =$</td><td>$m\angle __ =$</td><td>$m\angle __ =$</td></tr></table> | $x =$ | $m\angle __ =$ | $m\angle __ =$ | Angles are: <table border="1"><tr><td>$x =$</td><td>$m\angle __ =$</td><td>$m\angle __ =$</td></tr></table> | $x =$ | $m\angle __ =$ | $m\angle __ =$ |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | |
| 11. $m\angle 2 = (18x + 19)^\circ$ $m\angle 4 = (21x + 4)^\circ$ | 12. $m\angle 2 = (2x + 3)^\circ$ $m\angle 3 = (x + 27)^\circ$ | 13. $m\angle 2 = (14x - 19)^\circ$ $m\angle 6 = (11x + 8)^\circ$ | | | | | | | | | |
| Angles are: <table border="1"><tr><td>$x =$</td><td>$m\angle __ =$</td><td>$m\angle __ =$</td></tr></table> | $x =$ | $m\angle __ =$ | $m\angle __ =$ | Angles are: <table border="1"><tr><td>$x =$</td><td>$m\angle __ =$</td><td>$m\angle __ =$</td></tr></table> | $x =$ | $m\angle __ =$ | $m\angle __ =$ | Angles are: <table border="1"><tr><td>$x =$</td><td>$m\angle __ =$</td><td>$m\angle __ =$</td></tr></table> | $x =$ | $m\angle __ =$ | $m\angle __ =$ |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | |

Name: _____



| | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|-------|------------------|------------------|--|-------------|--|--|-------|------------------|------------------|--|-------------|--|--|-------|------------------|------------------|
| 14. $m\angle 5 = (12x + 7)^\circ$ $m\angle 8 = (25x + 25)^\circ$ | 15. $m\angle 5 = (6x + 8)^\circ$ $m\angle 7 = (10x - 20)^\circ$ | 16. $m\angle 5 = (4x + 24)^\circ$ $m\angle 6 = (8x - 12)^\circ$ | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td colspan="3">Angles are:</td></tr> <tr> <td>$x =$</td> <td>$m\angle __ =$</td> <td>$m\angle __ =$</td> </tr> </table> | Angles are: | | | $x =$ | $m\angle __ =$ | $m\angle __ =$ | <table border="1"> <tr><td colspan="3">Angles are:</td></tr> <tr> <td>$x =$</td> <td>$m\angle __ =$</td> <td>$m\angle __ =$</td> </tr> </table> | Angles are: | | | $x =$ | $m\angle __ =$ | $m\angle __ =$ | <table border="1"> <tr><td colspan="3">Angles are:</td></tr> <tr> <td>$x =$</td> <td>$m\angle __ =$</td> <td>$m\angle __ =$</td> </tr> </table> | Angles are: | | | $x =$ | $m\angle __ =$ | $m\angle __ =$ |
| Angles are: | | | | | | | | | | | | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | | | | | | | | | | |
| Angles are: | | | | | | | | | | | | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | | | | | | | | | | |
| Angles are: | | | | | | | | | | | | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | | | | | | | | | | |
| 17. $m\angle 3 = (8x + 12)^\circ$ $m\angle 7 = (10x)^\circ$ | 18. $m\angle 6 = (9x + 23)^\circ$ $m\angle 7 = (5x + 3)^\circ$ | 19. $m\angle 1 = (20x + 5)^\circ$ $m\angle 2 = (20x + 15)^\circ$ | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td colspan="3">Angles are:</td></tr> <tr> <td>$x =$</td> <td>$m\angle __ =$</td> <td>$m\angle __ =$</td> </tr> </table> | Angles are: | | | $x =$ | $m\angle __ =$ | $m\angle __ =$ | <table border="1"> <tr><td colspan="3">Angles are:</td></tr> <tr> <td>$x =$</td> <td>$m\angle __ =$</td> <td>$m\angle __ =$</td> </tr> </table> | Angles are: | | | $x =$ | $m\angle __ =$ | $m\angle __ =$ | <table border="1"> <tr><td colspan="3">Angles are:</td></tr> <tr> <td>$x =$</td> <td>$m\angle __ =$</td> <td>$m\angle __ =$</td> </tr> </table> | Angles are: | | | $x =$ | $m\angle __ =$ | $m\angle __ =$ |
| Angles are: | | | | | | | | | | | | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | | | | | | | | | | |
| Angles are: | | | | | | | | | | | | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | | | | | | | | | | |
| Angles are: | | | | | | | | | | | | | | | | | | | | |
| $x =$ | $m\angle __ =$ | $m\angle __ =$ | | | | | | | | | | | | | | | | | | |

Parallel Lines Cut by a Transversal Practice (Part 2) Answers

| | | | | |
|--|---|---|--|---|
| 1. $m\angle 7 = 64^\circ$ Alt. Int. \angle s | 2. $m\angle 7 = 65^\circ$ Same Side Int. \angle s | 3. $m\angle 8 = 98^\circ$ Corr. \angle s | 4. $m\angle 6 = 108^\circ$ Lin. Pair \angle s | 5. Vert. \angle s; $x = 22$; $m\angle 1 = 120^\circ$; $m\angle 7 = 120^\circ$ |
| 6. Alt. Ext. \angle s; $x = 5$; $m\angle 1 = 67^\circ$; $m\angle 5 = 67^\circ$ | 7. S. S. Ext. \angle s; $x = 13$; $m\angle 1 = 51^\circ$; $m\angle 4 = 129^\circ$ | 8. Alt. Ext. \angle s; $x = 10$; $m\angle 4 = 140^\circ$; $m\angle 8 = 140^\circ$ | 9. Vert. \angle s; $x = 8$; $m\angle 4 = 143^\circ$; $m\angle 6 = 143^\circ$ | 10. Lin. Pr. \angle s; $x = 6$; $m\angle 7 = 68^\circ$; $m\angle 8 = 112^\circ$ |
| 11. Corr. \angle s; $x = 5$; $m\angle 2 = 109^\circ$; $m\angle 4 = 109^\circ$ | 12. S.S. Int. \angle s; $x = 50$; $m\angle 2 = 103^\circ$; $m\angle 3 = 77^\circ$ | 13. Alt. Int. \angle s; $x = 9$; $m\angle 2 = 107^\circ$; $m\angle 6 = 107^\circ$ | 14. S.S. Ext. \angle s; $x = 4$; $m\angle 5 = 55^\circ$; $m\angle 8 = 125^\circ$ | 15. Corr. \angle s; $x = 7$; $m\angle 5 = 50^\circ$; $m\angle 7 = 50^\circ$ |
| 16. Ln. Pr. \angle s; $x = 14$; $m\angle 5 = 80^\circ$; $m\angle 6 = 100^\circ$ | 17. Alt. Int. \angle s; $x = 6$; $m\angle 3 = 60^\circ$; $m\angle 7 = 60^\circ$ | 18. S.S. Int. \angle s; $x = 11$; $m\angle 6 = 122^\circ$; $m\angle 7 = 58^\circ$ | 19. Ln. Pr. \angle s; $x = 4$; $m\angle 1 = 85^\circ$; $m\angle 2 = 95^\circ$ | |