

2.6 Special Angles on Parallel Lines

1) $a = 54, b = 54, c = 54$

2) $a = 115, b = 65, c = 115, d = 65$

3) $a = 72, b = 126$

4) Parallel since Corresponding Angles are congruent.

5) Not parallel since consecutive interior angles are not supplementary

6) Not enough information

7) $b = 78, a = 102, e = 26, f = 58, d = 122, c = 58.$

8) $3x - 160 = x$ $x = 80$

9) $182 - 4x = 5x + 2$ $x = 20$

$182 - 4(20) = 4y + 2$ $y = 25$

3.2 Special Angles on Parallel Lines

1. $a = d = 64, b = c = 116, e = g = i = j = k = 108, f = h = s = 72, m = 105, n = 79, p = 90, q = 116, t = 119$

2. Left problem – 65, 10 Right problem – 8, 10

3. $a = 38, b = 38, c = 142, d = 38, e = 50, f = 65, g = 106, h = 74$